

FIG. 1

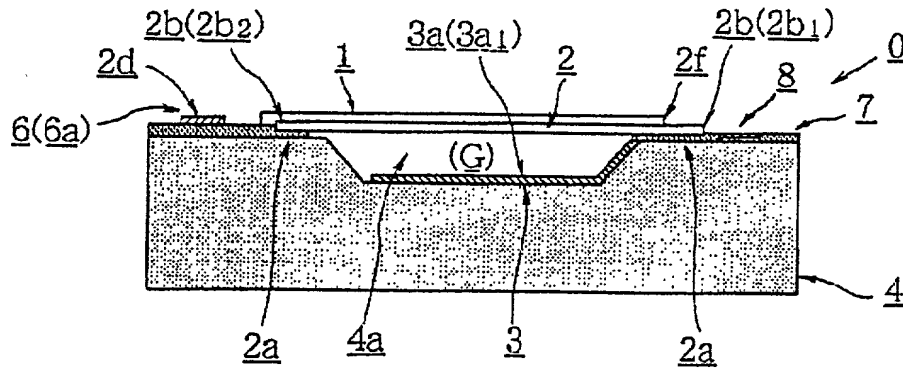
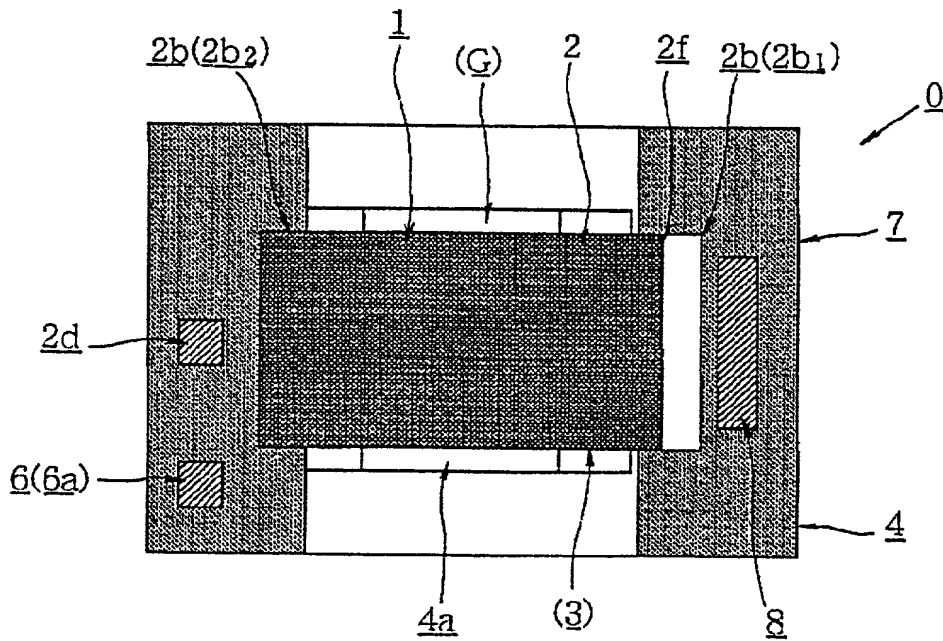
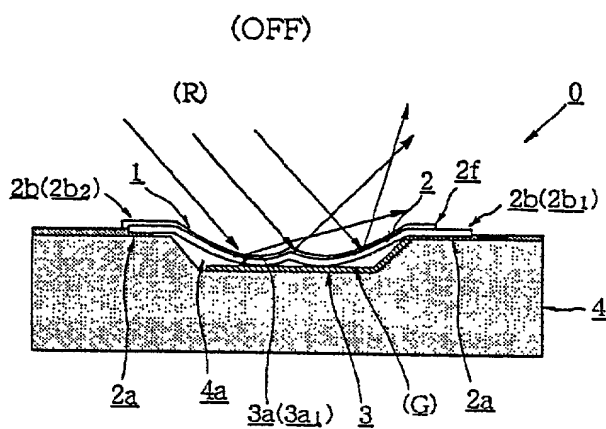


FIG. 2





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FIG. 5

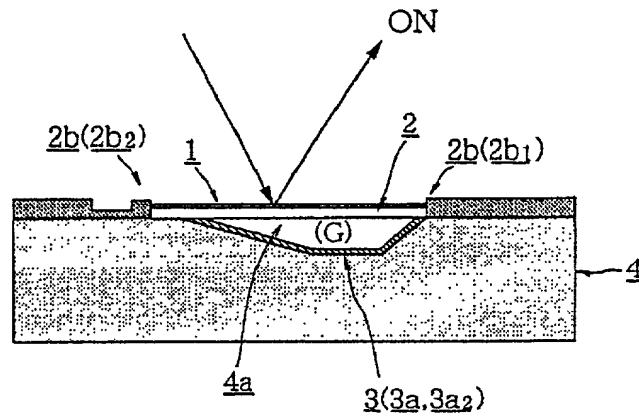
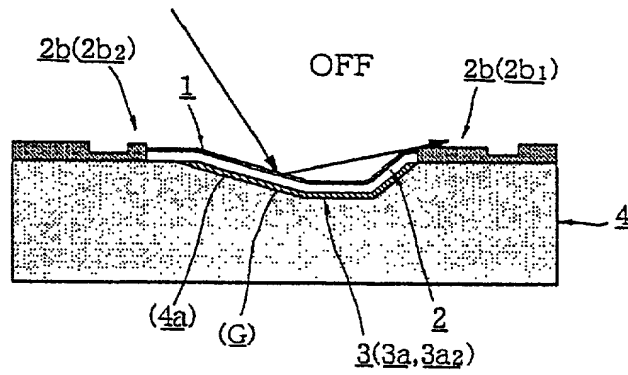
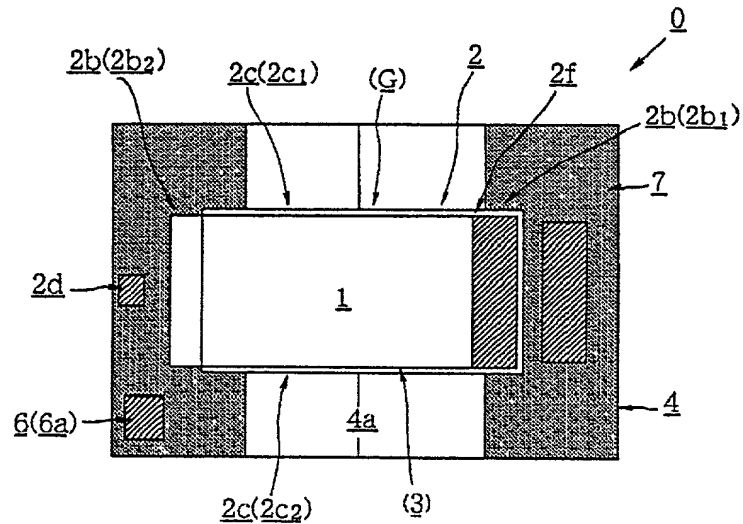
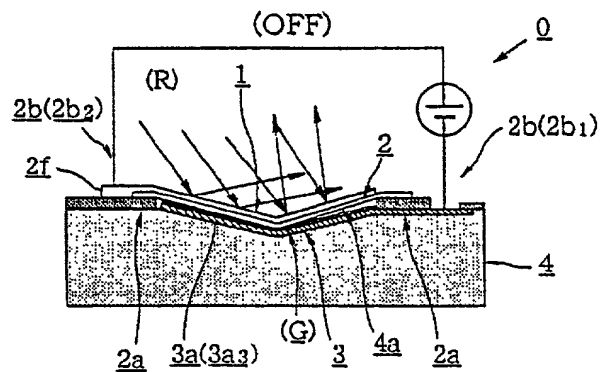


FIG. 6







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FIG. 11

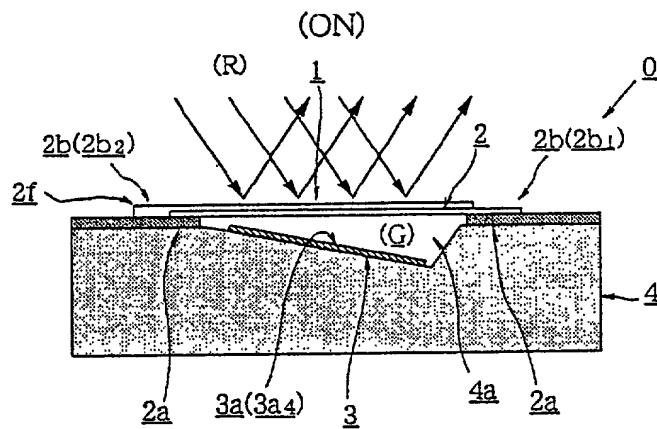
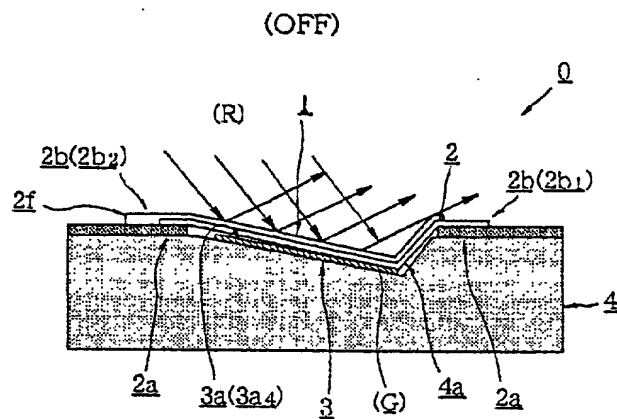


FIG. 12



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FIG. 13

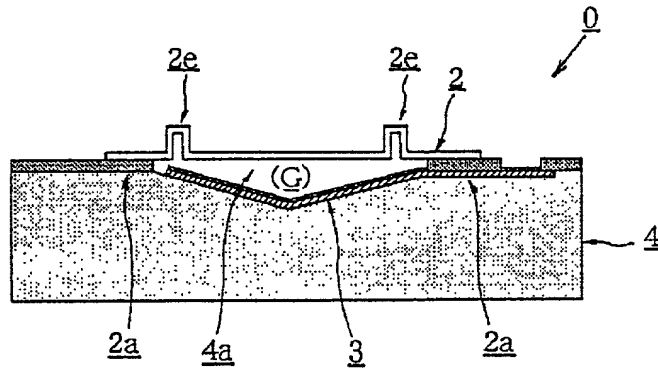


FIG. 14

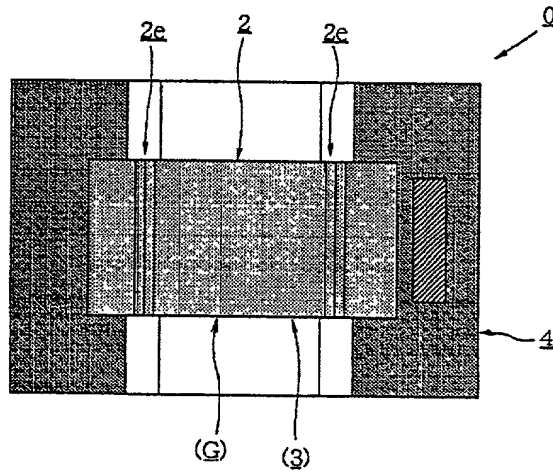
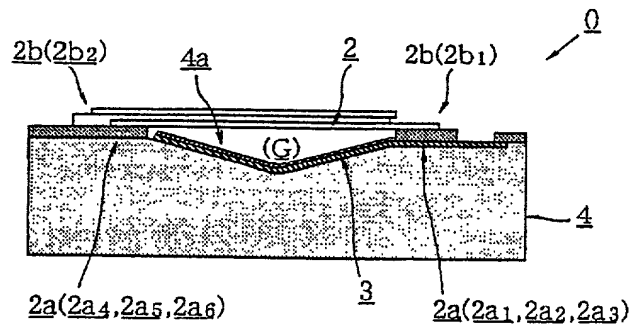


FIG. 15



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FIG. 16

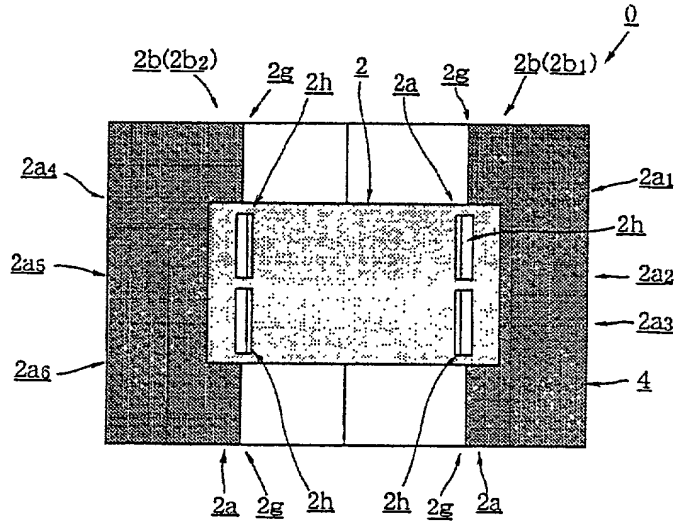


FIG. 17

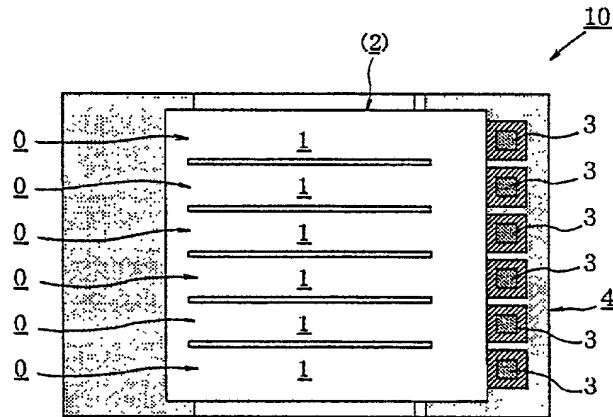
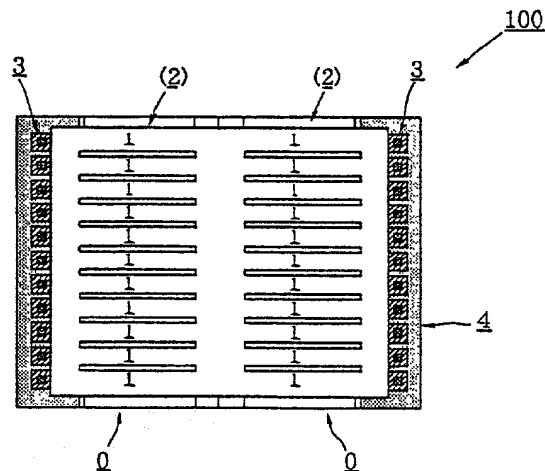
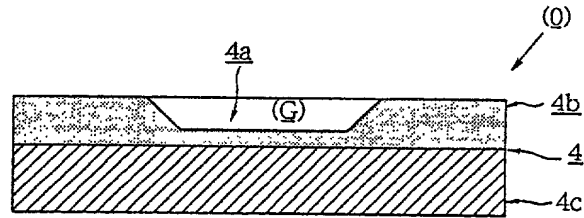


FIG. 18



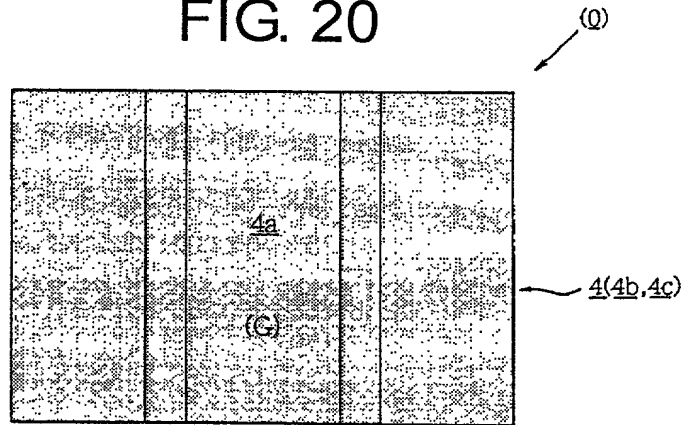
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FIG. 19



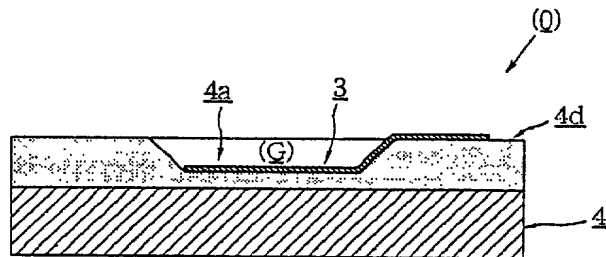
(a)

FIG. 20



(a)

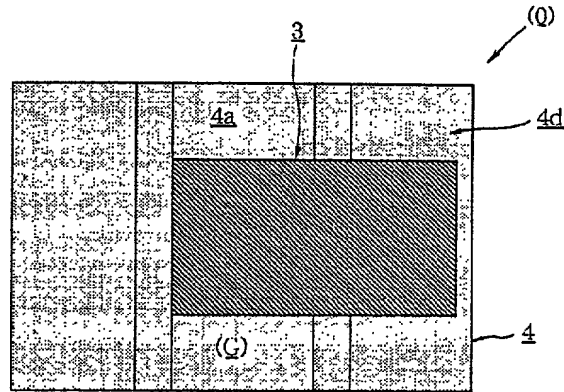
FIG. 21



(b)

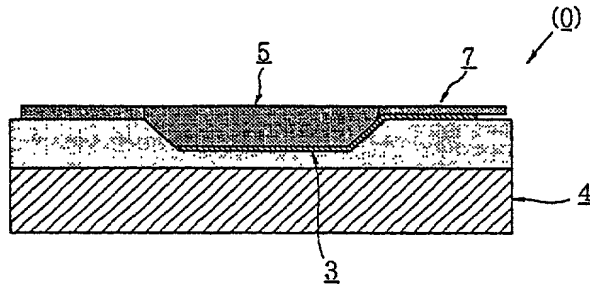
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FIG. 22



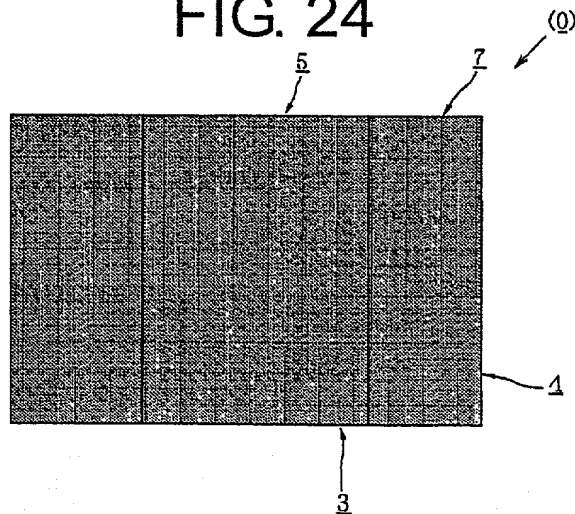
(b)

FIG. 23



(c)

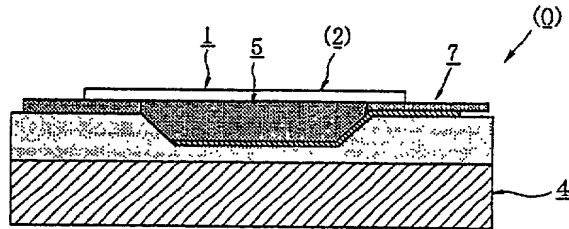
FIG. 24



(c)

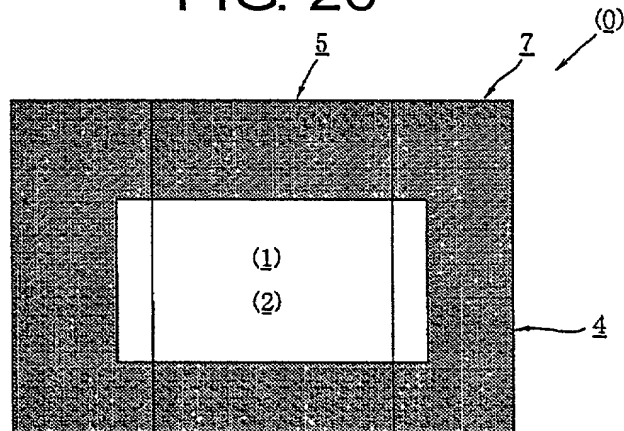
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FIG. 25



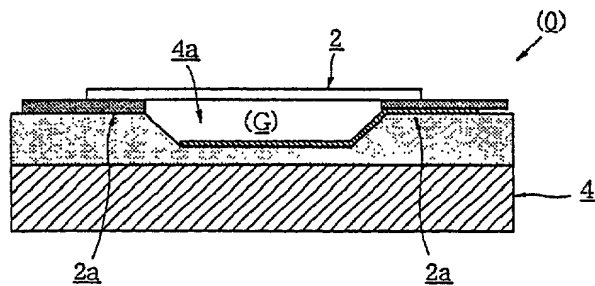
(d)

FIG. 26



(d)

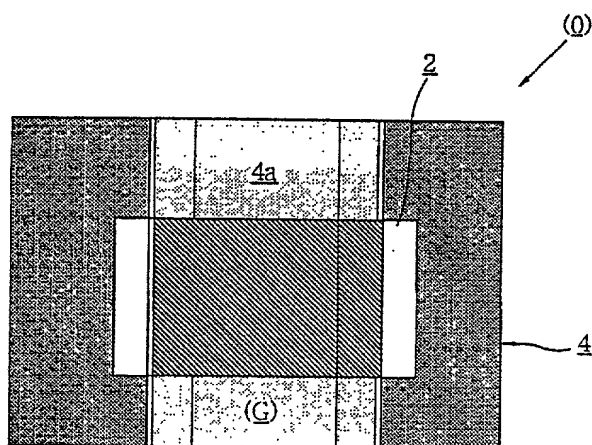
FIG. 27



(e)

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FIG. 28



(e)

FIG. 29

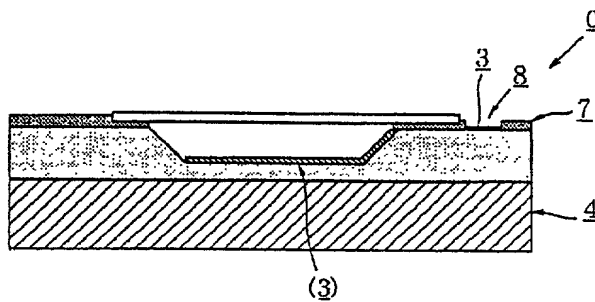
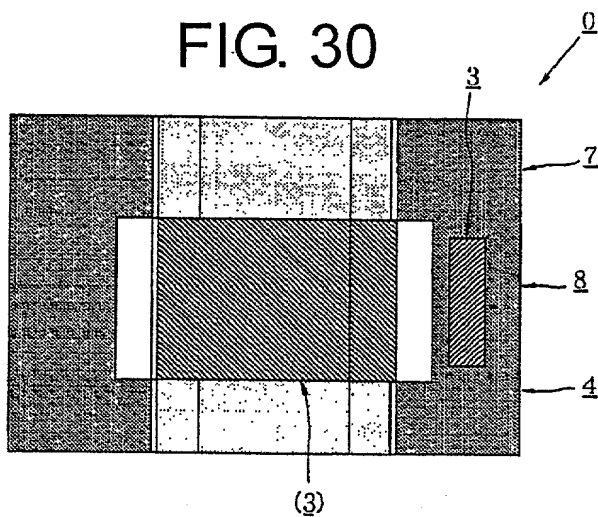
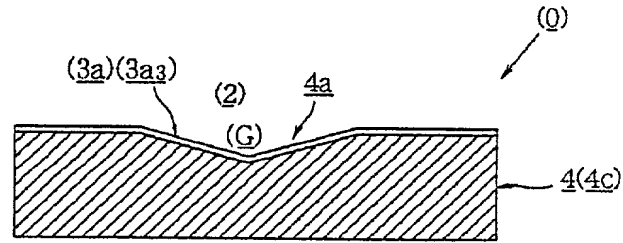


FIG. 30



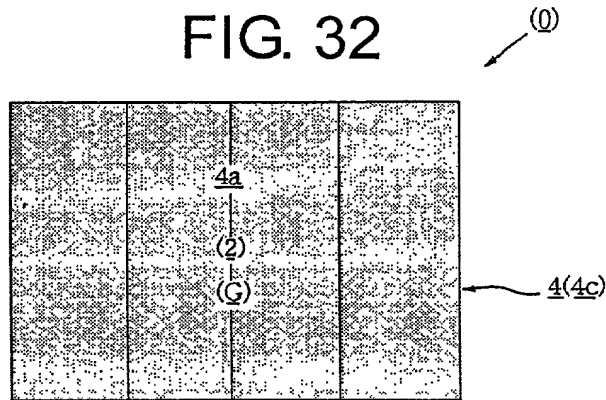
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FIG. 31



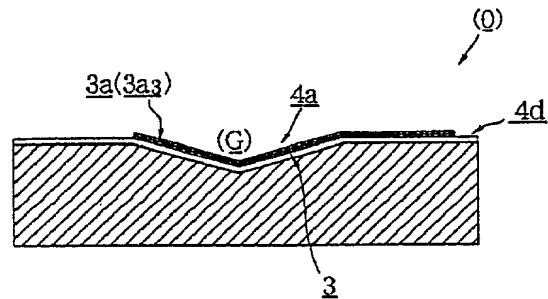
(a)

FIG. 32



(a)

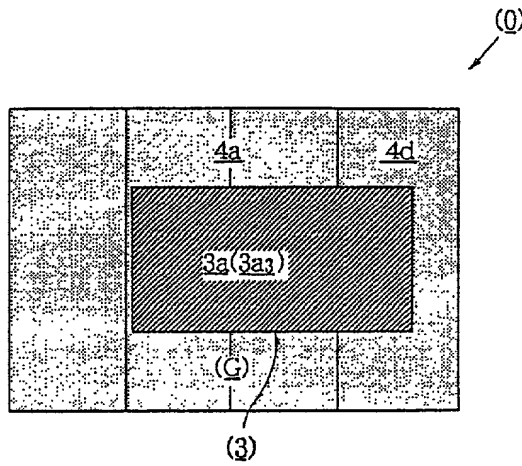
FIG. 33



(b)

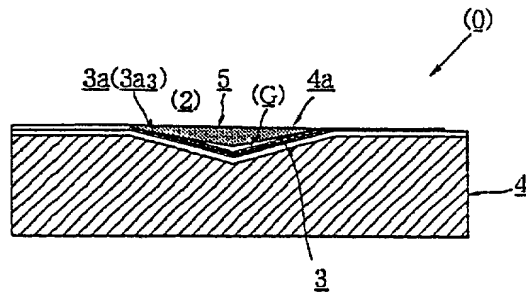
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FIG. 34



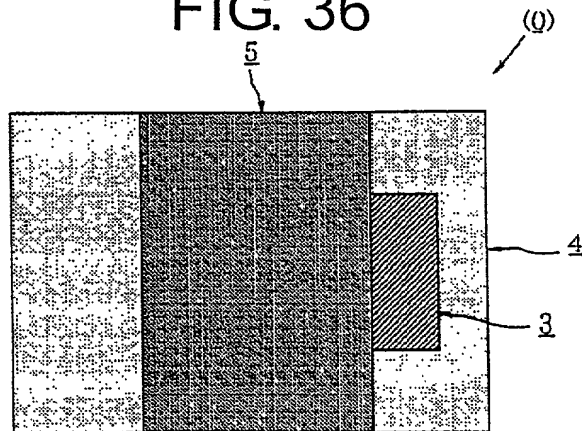
(b)

FIG. 35



(c)

FIG. 36



(c)

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FIG. 37

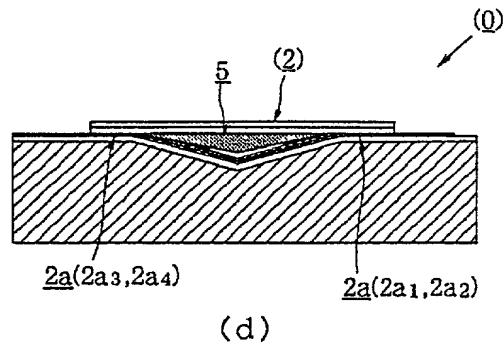


FIG. 38

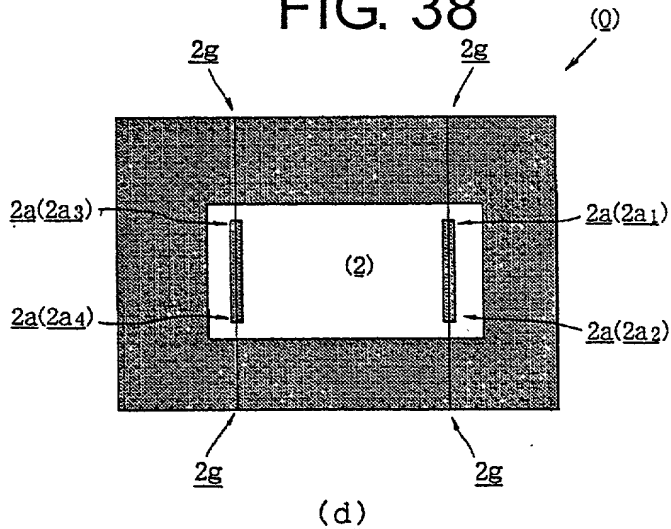


FIG. 39

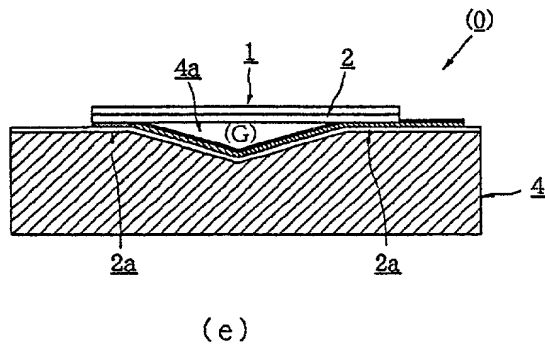


FIG. 40

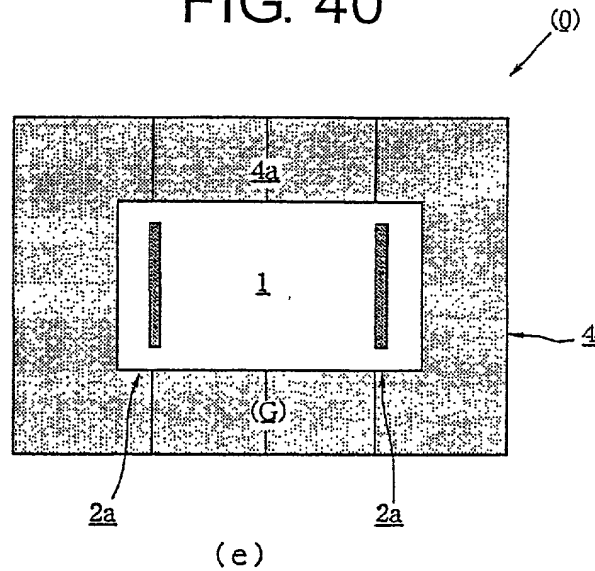


FIG. 41

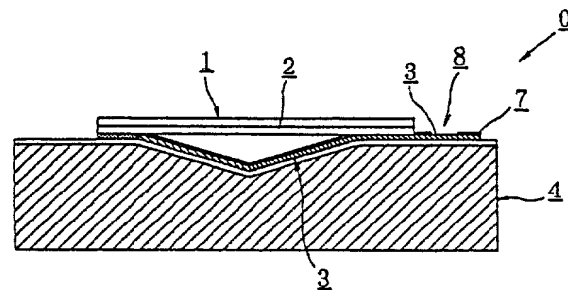
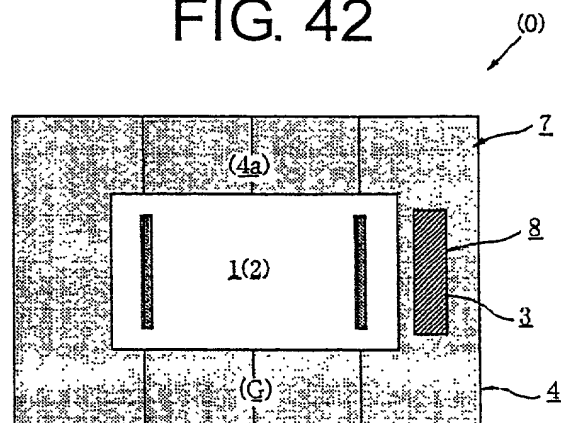
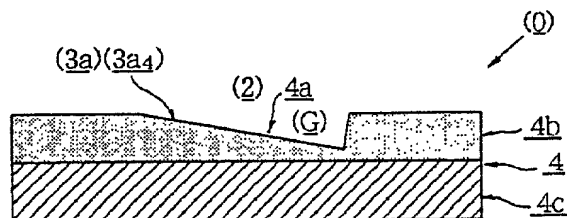


FIG. 42



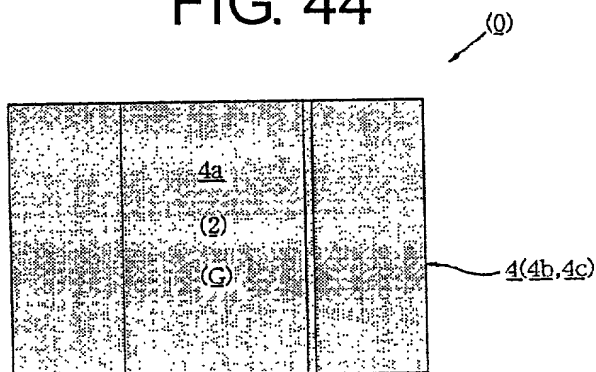
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FIG. 43



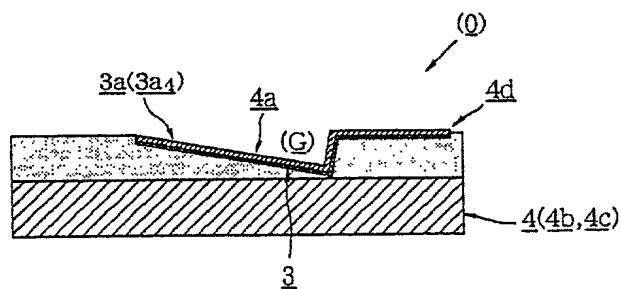
(a)

FIG. 44



(a)

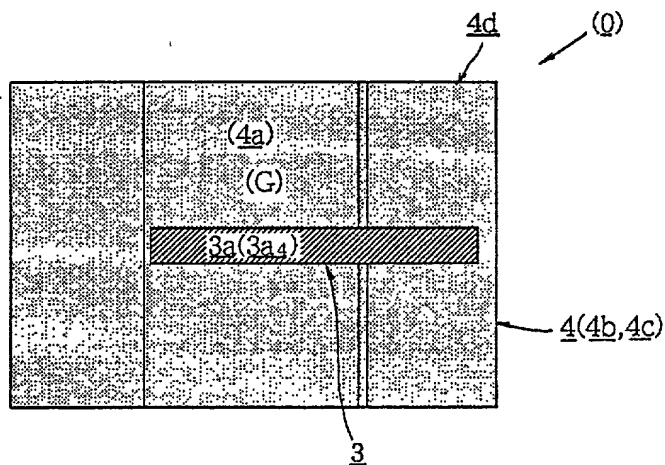
FIG. 45



(b)

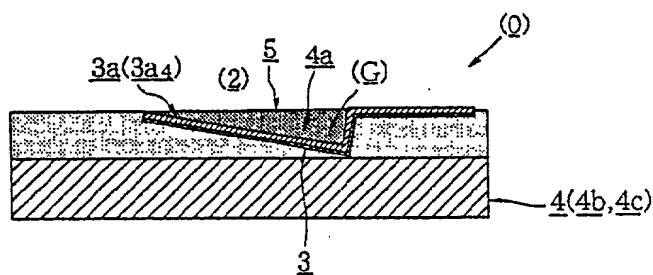
20250806-011802

FIG. 46



(b)

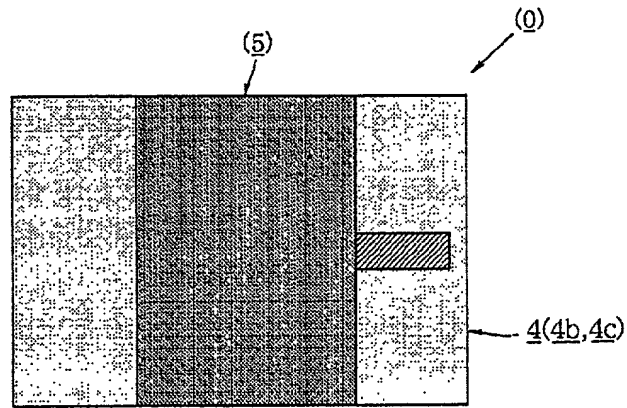
FIG. 47



(c)

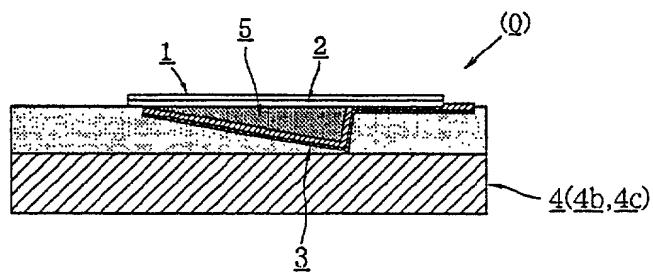
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FIG. 48



(c)

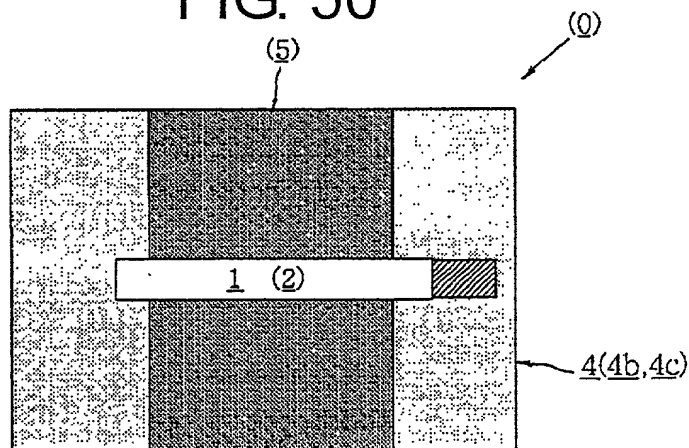
FIG. 49



(d)

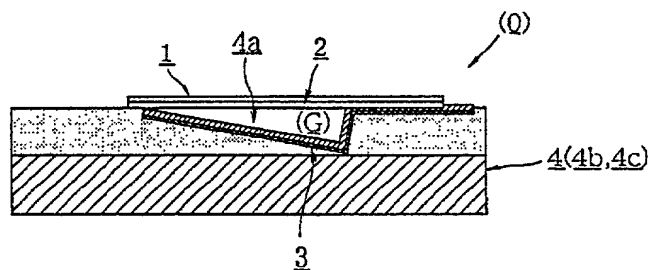
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FIG. 50



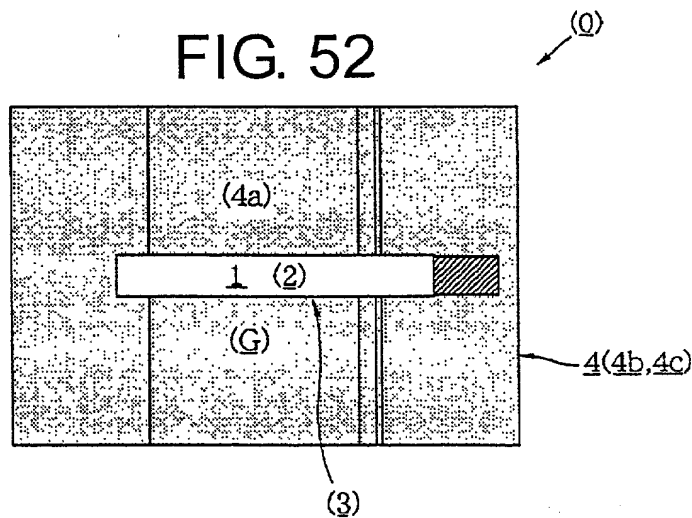
(d)

FIG. 51



(e)

FIG. 52



(e)

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FIG. 53

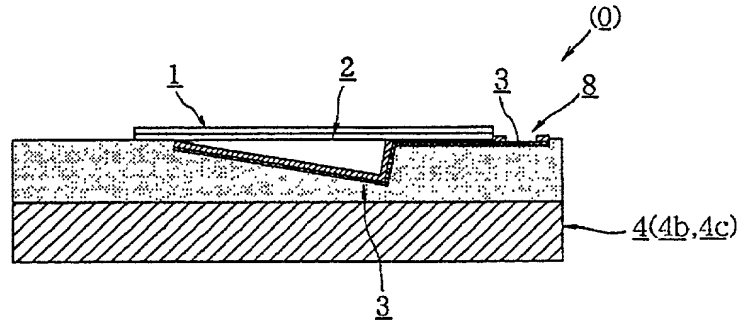


FIG. 54

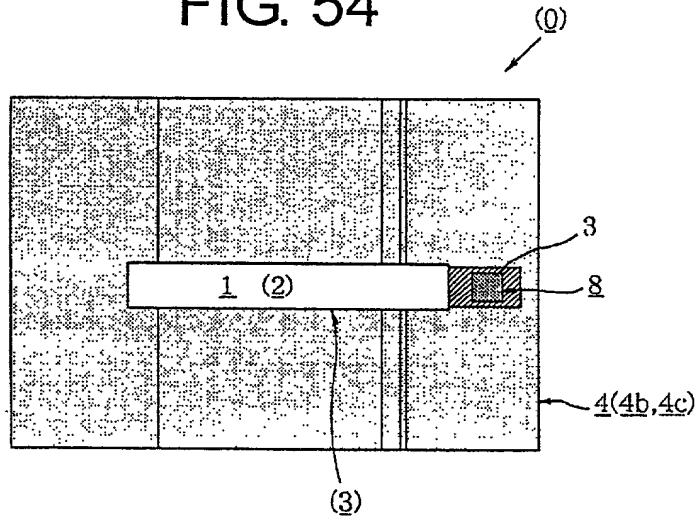
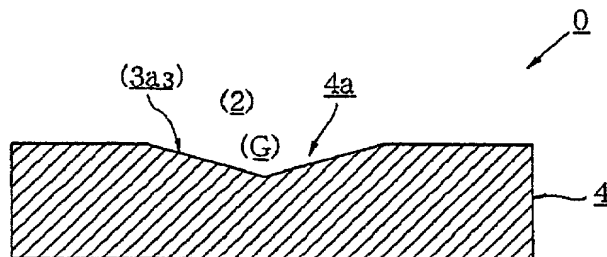


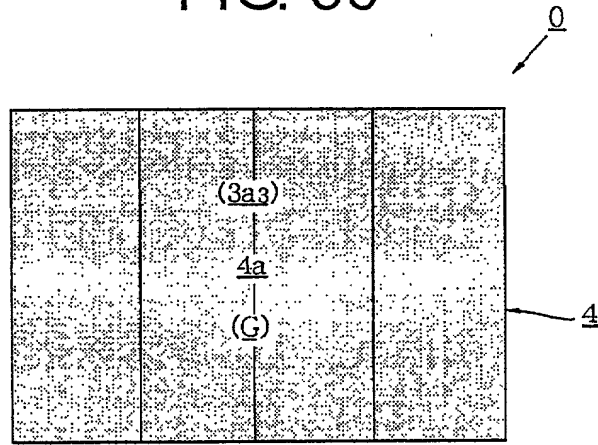
FIG. 55



(a)

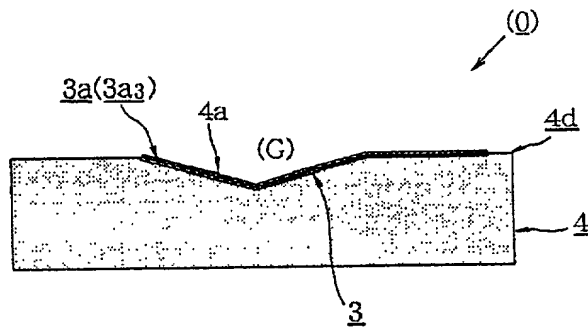
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FIG. 56



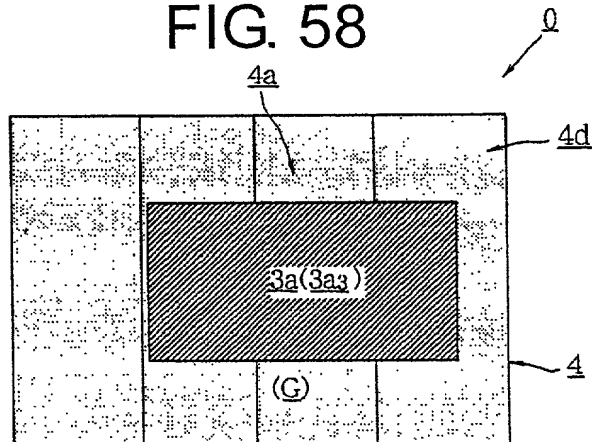
(a)

FIG. 57

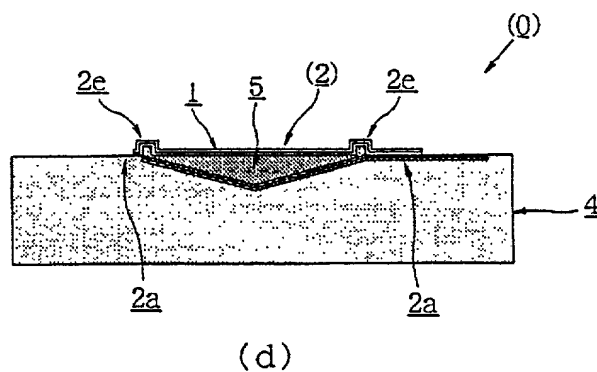


(b)

FIG. 58



(b)



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FIG. 62

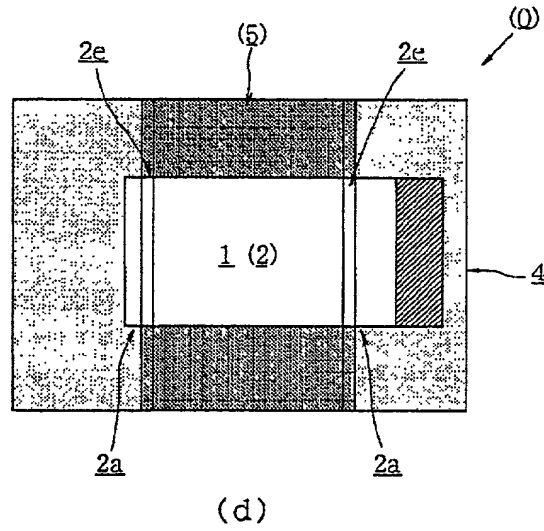
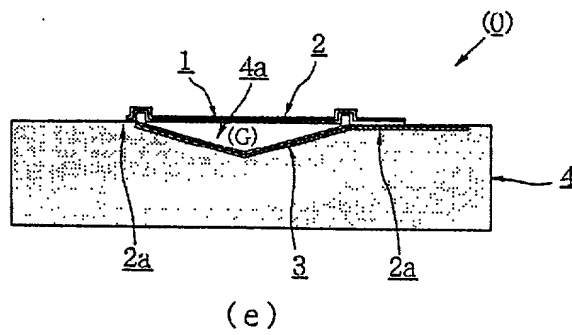


FIG. 63



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FIG. 64

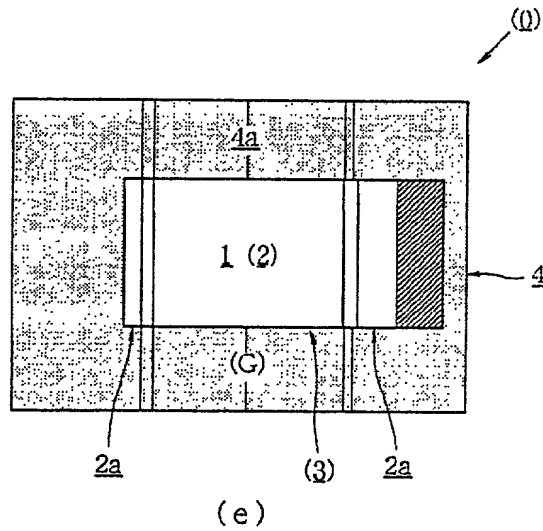
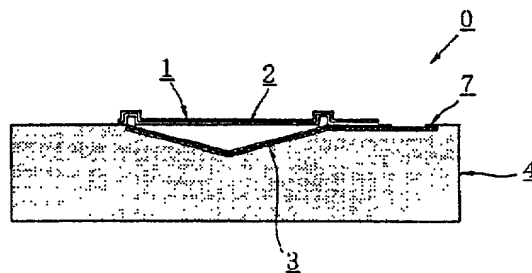


FIG. 65



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FIG. 66

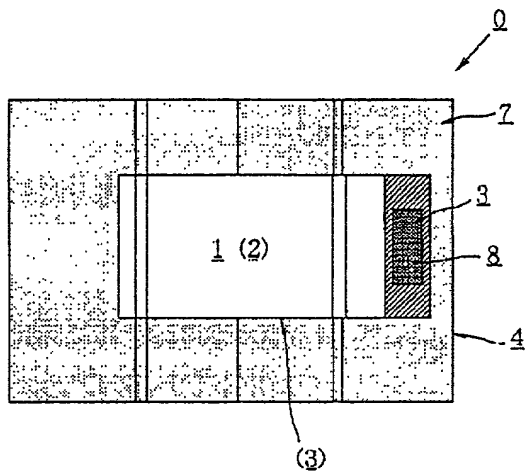
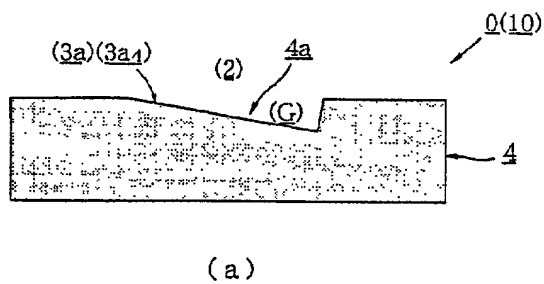
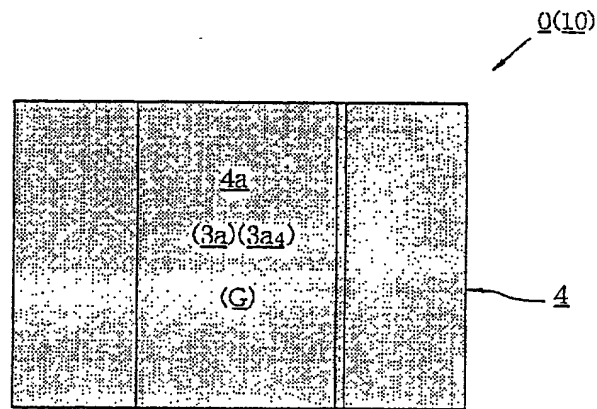


FIG. 67



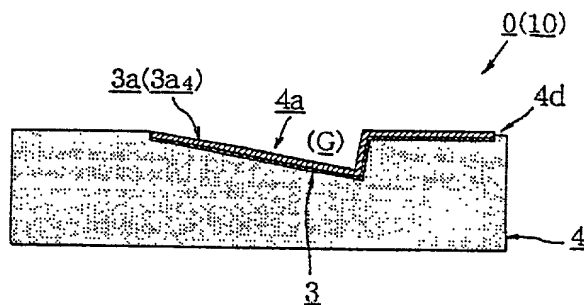
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FIG. 68



(a)

FIG. 69



(b)

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FIG. 70

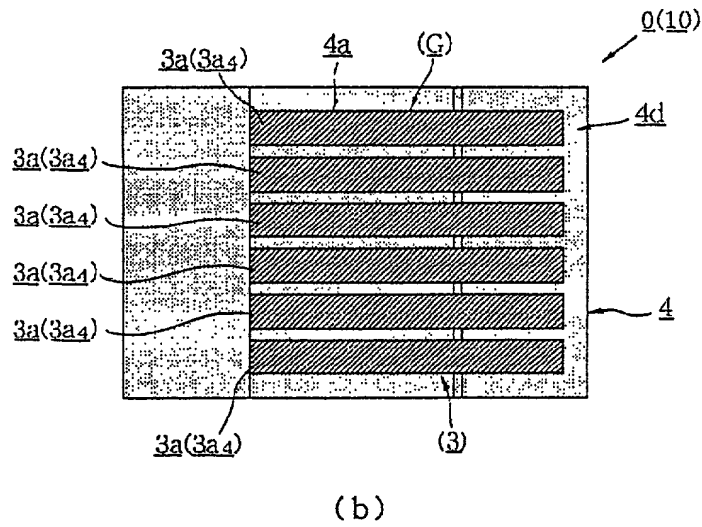
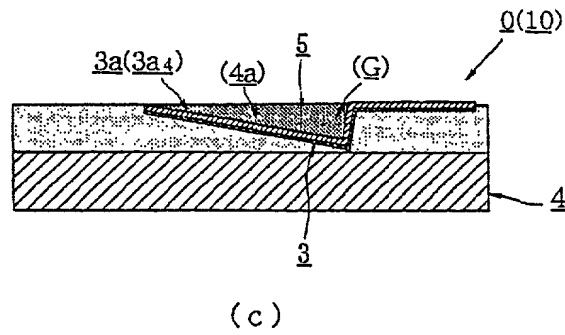


FIG. 71



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FIG. 72

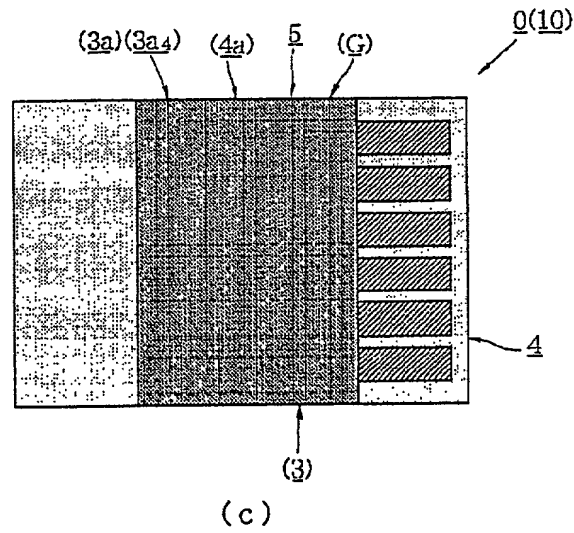
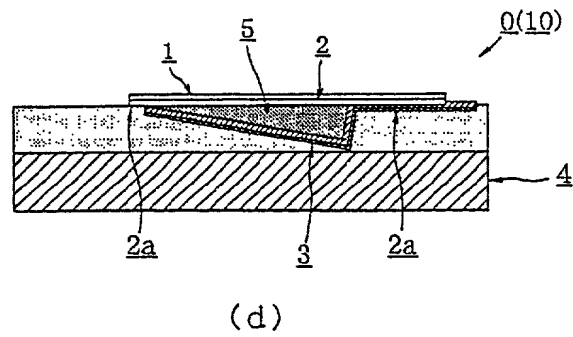
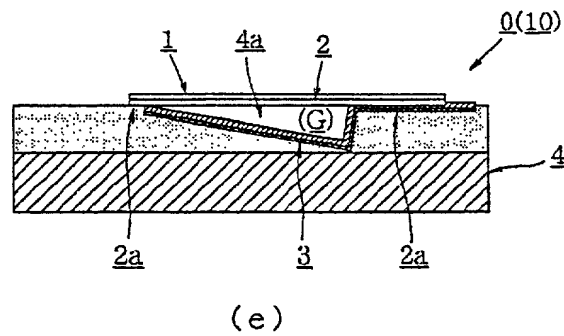


FIG. 73





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FIG. 76

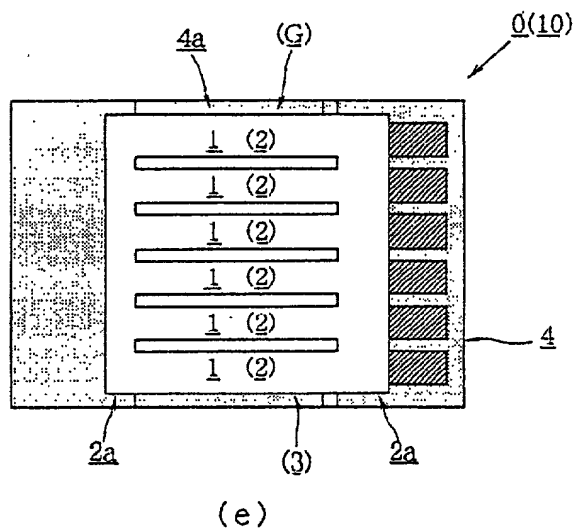
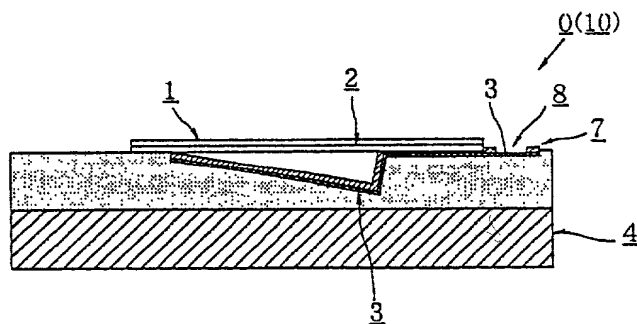


FIG. 77



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FIG. 78

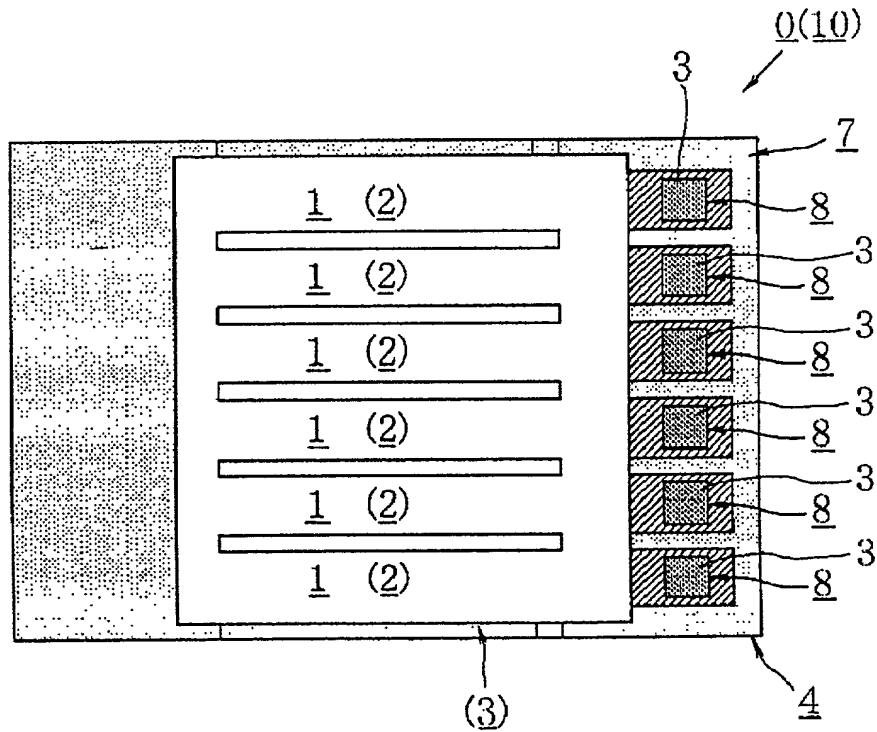


FIG. 79

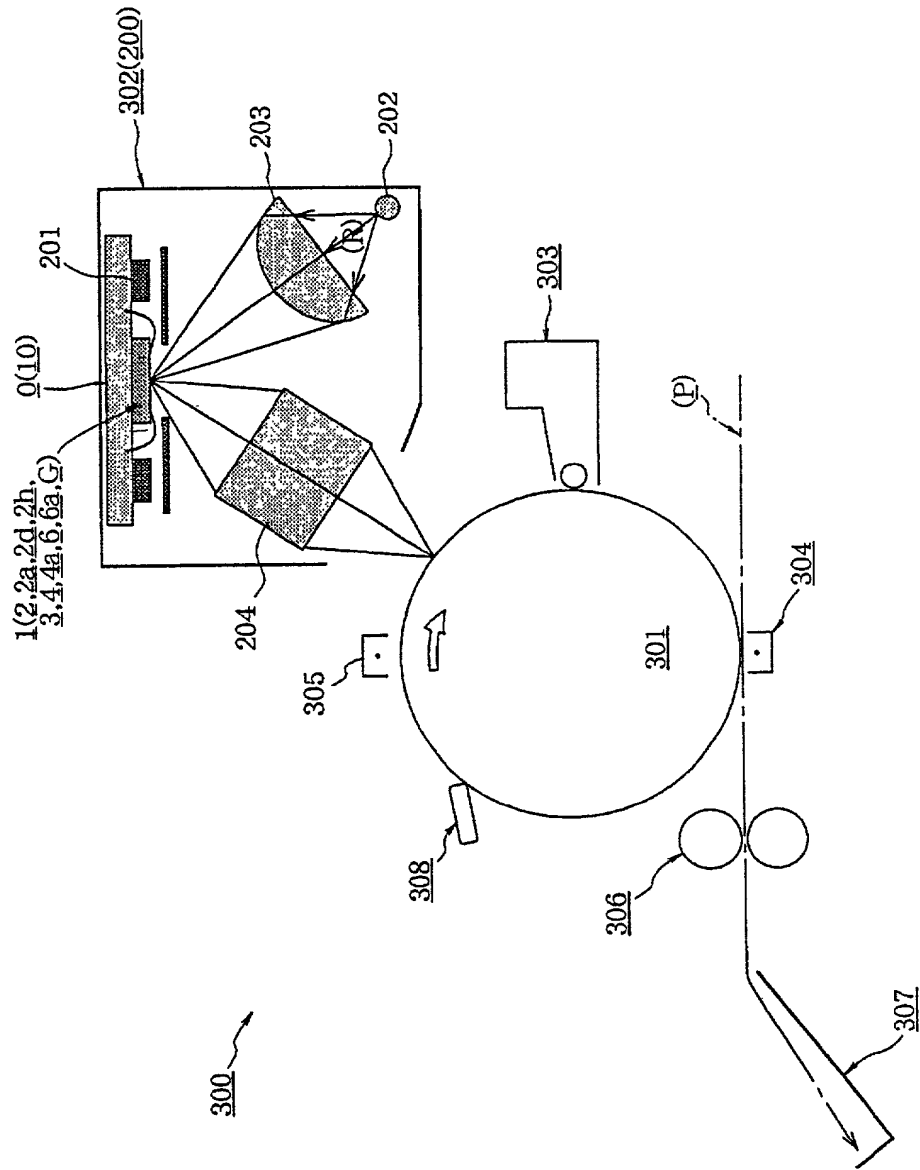
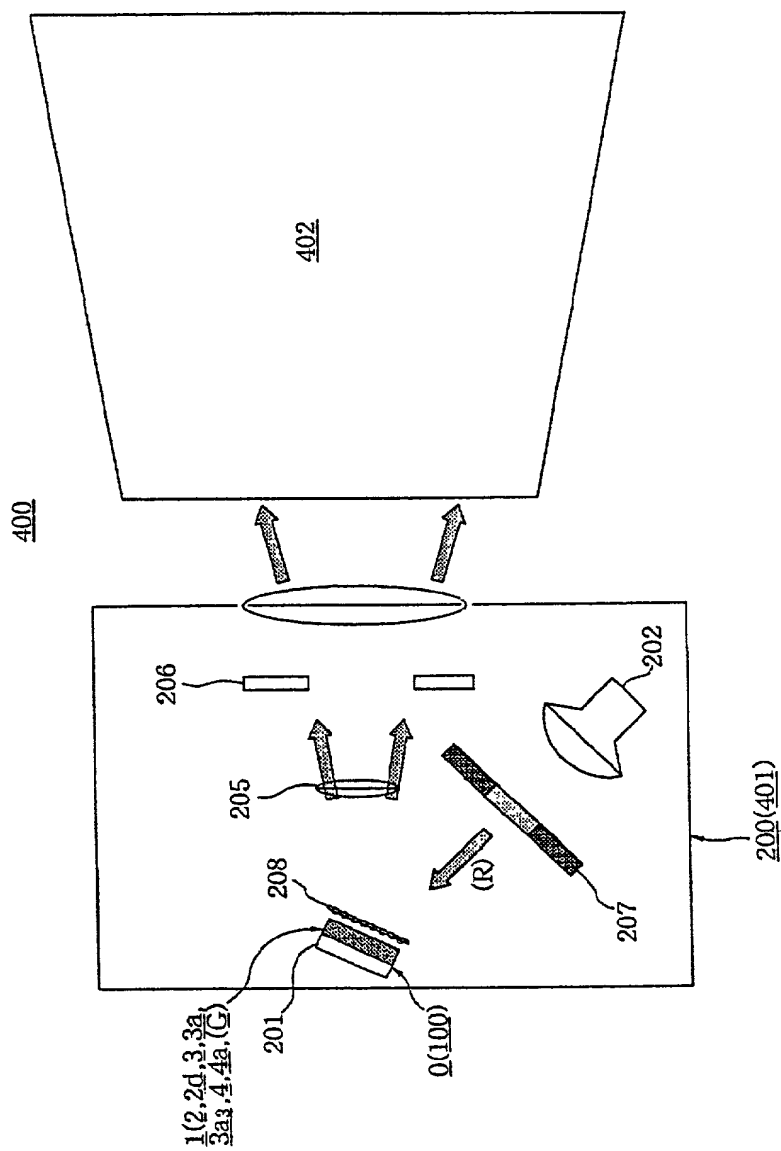


FIG. 80



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FIG. 81A

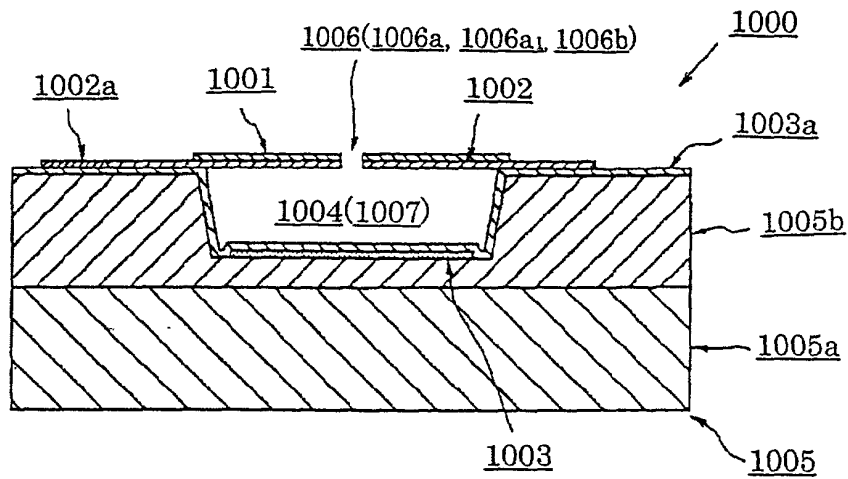
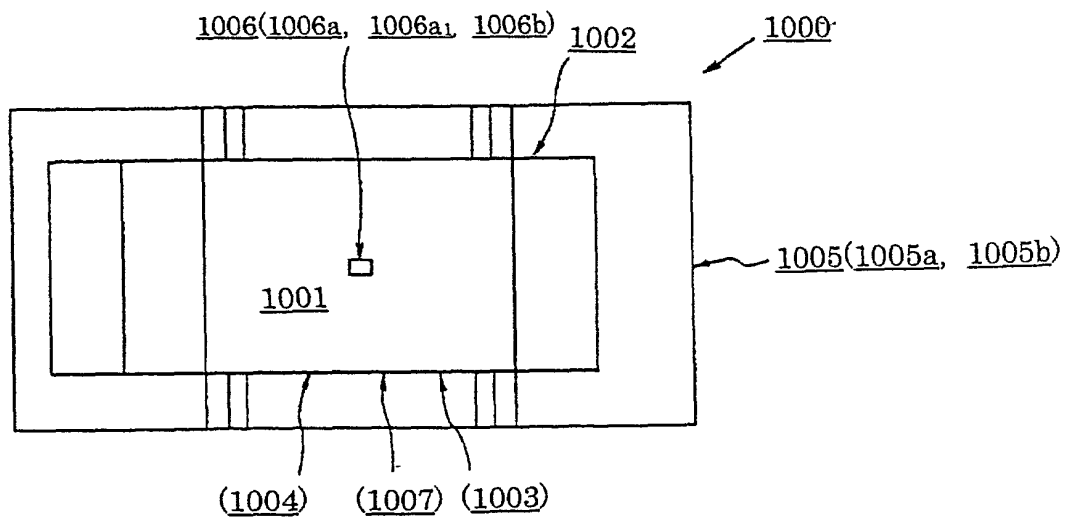


FIG. 81B



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FIG. 82A

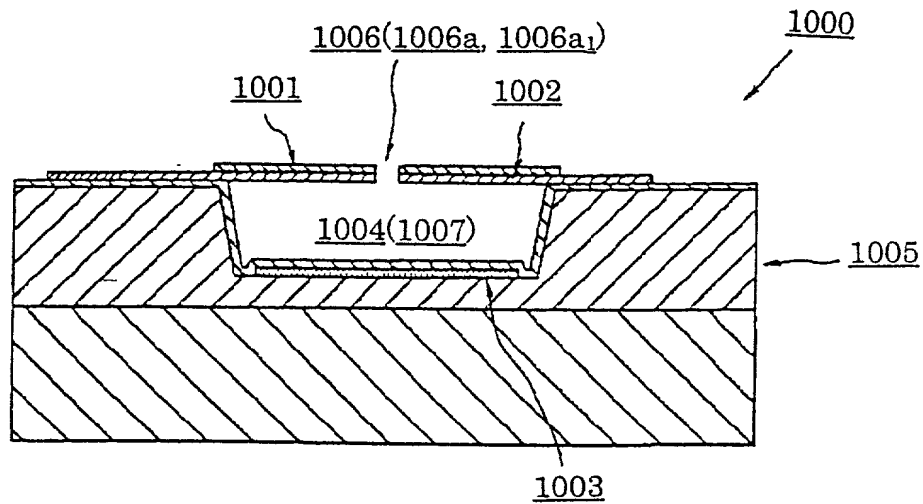
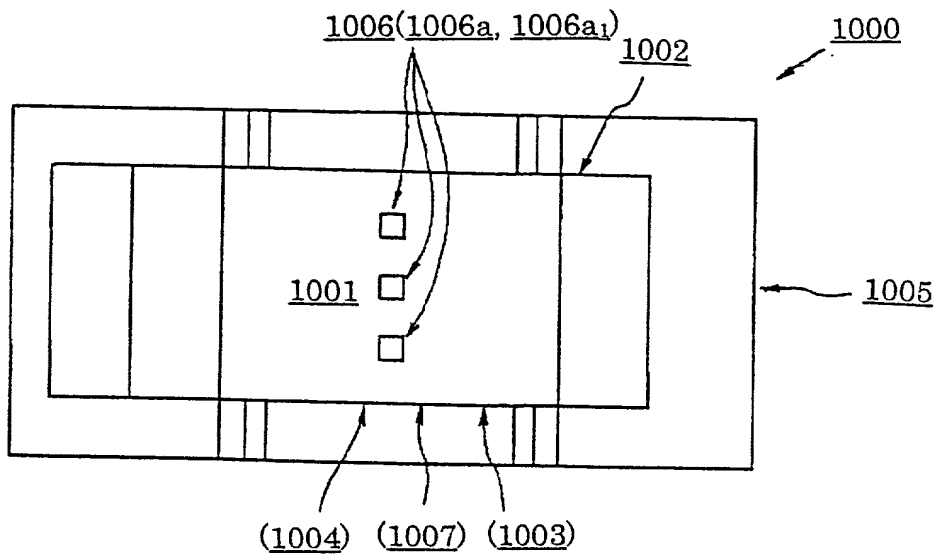


FIG. 82B



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FIG. 83A

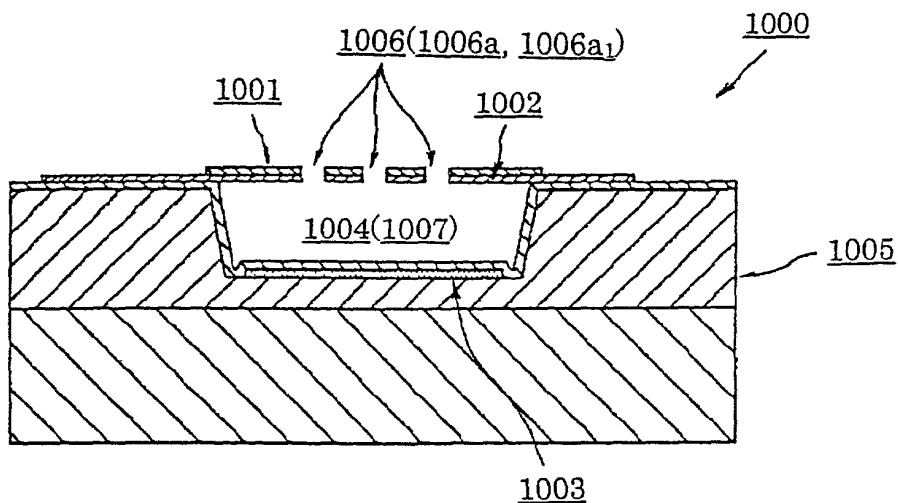


FIG. 83B

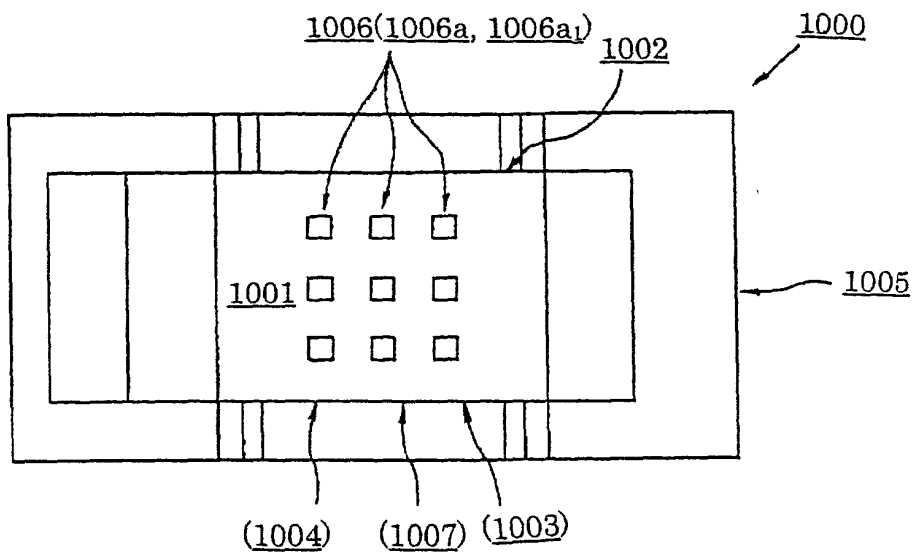


FIG. 84A

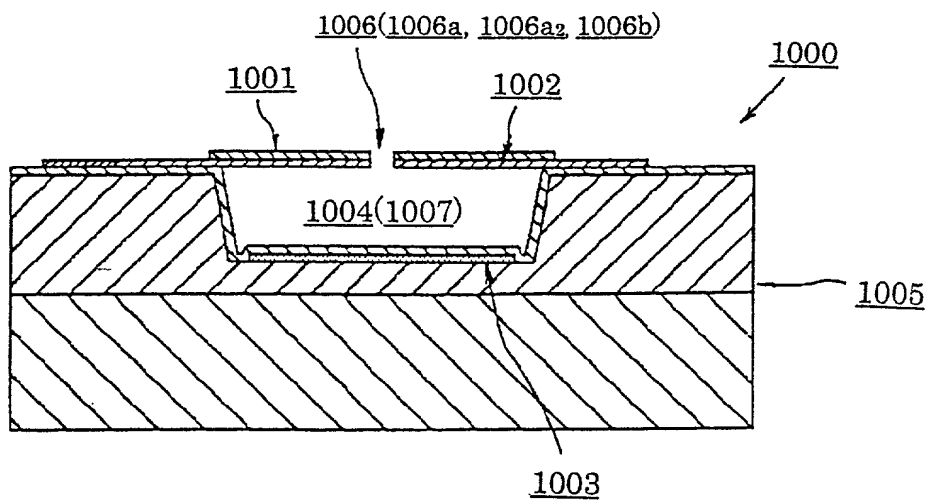
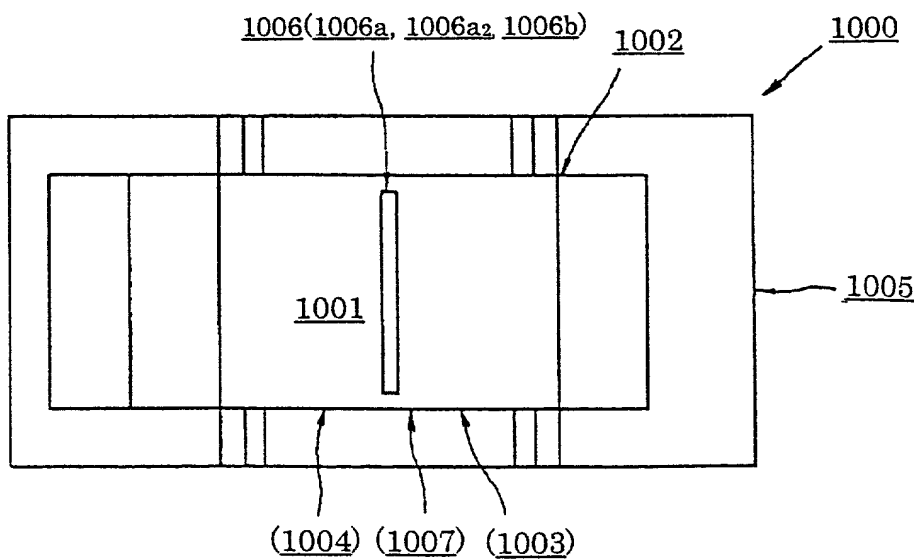


FIG. 84B



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FIG. 85C

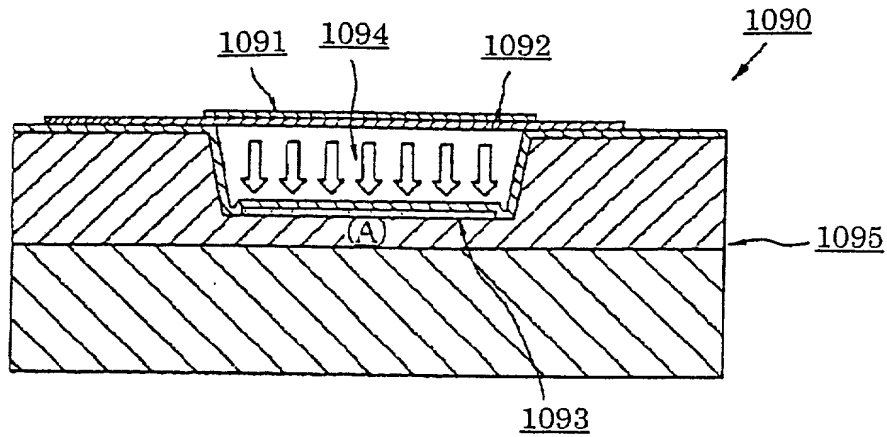
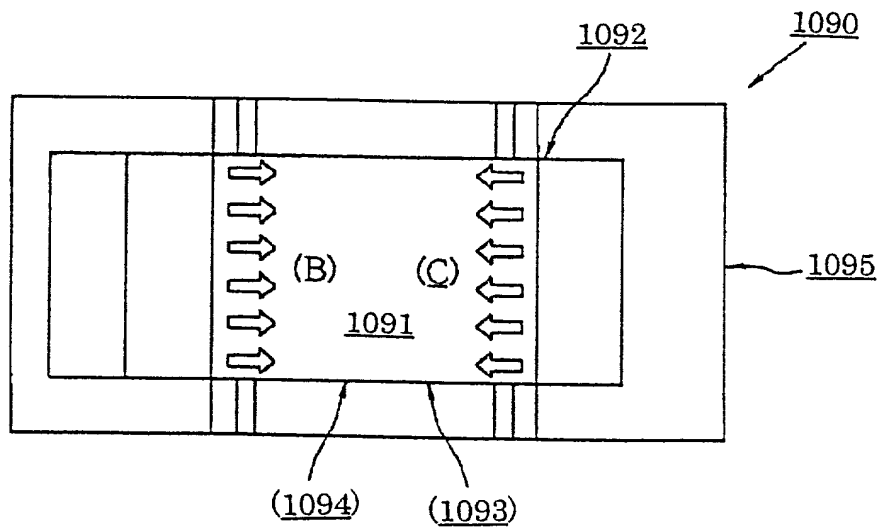


FIG. 85D



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FIG. 86E

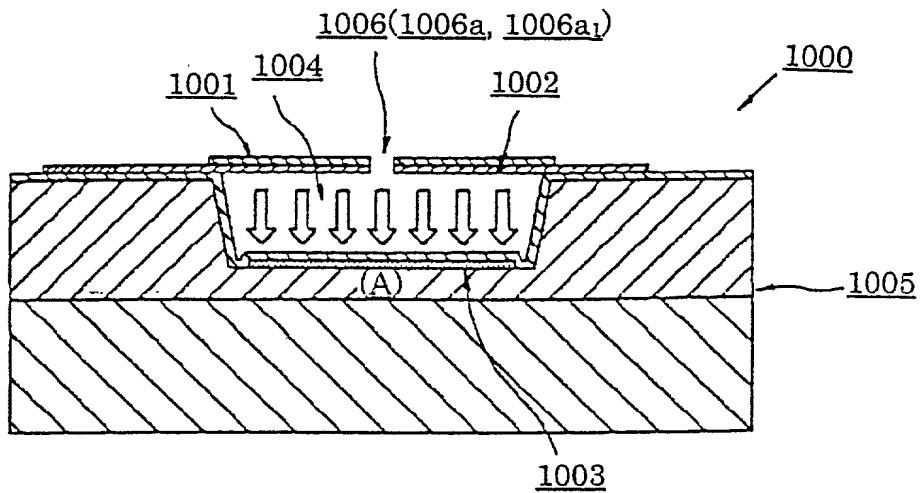
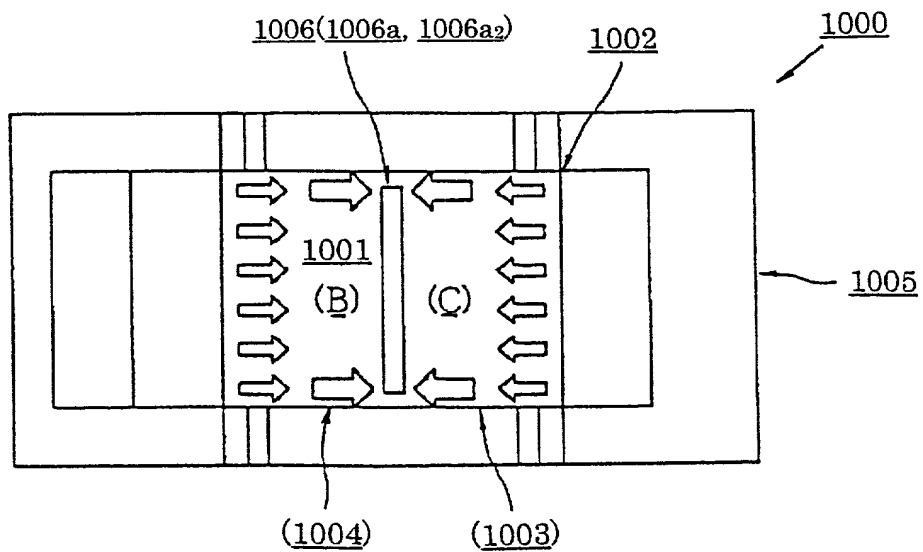


FIG. 86F



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FIG. 87A

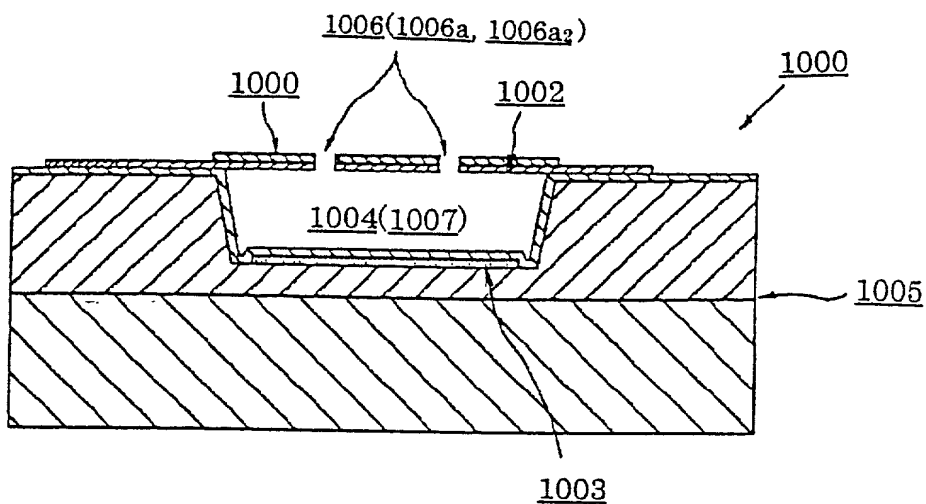
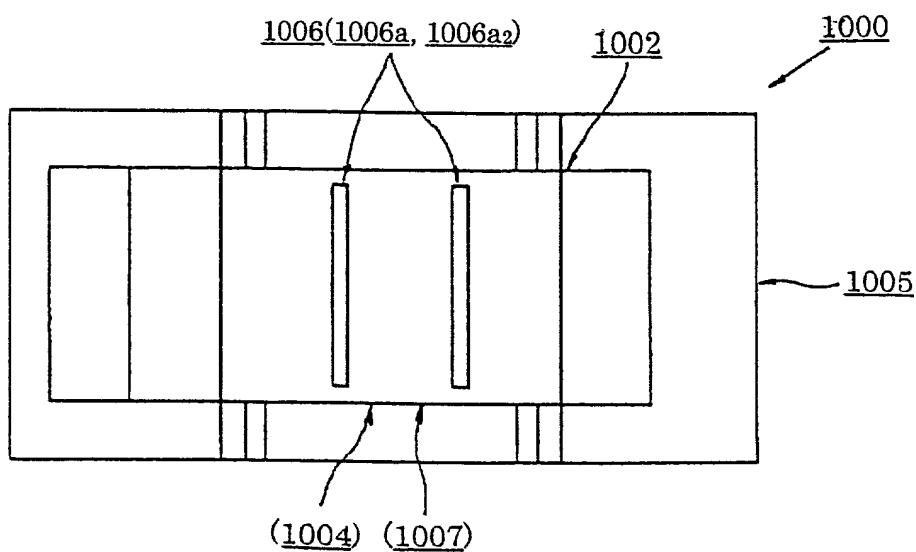


FIG. 87B



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FIG. 88A

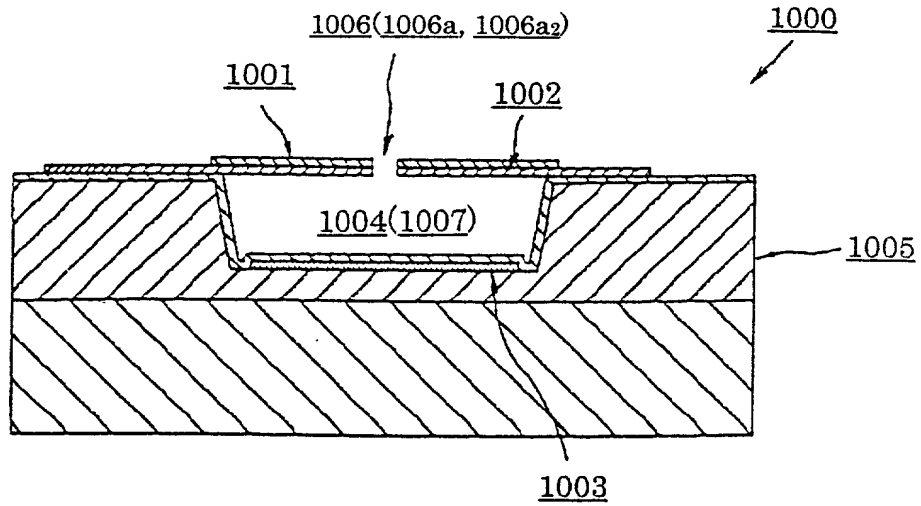
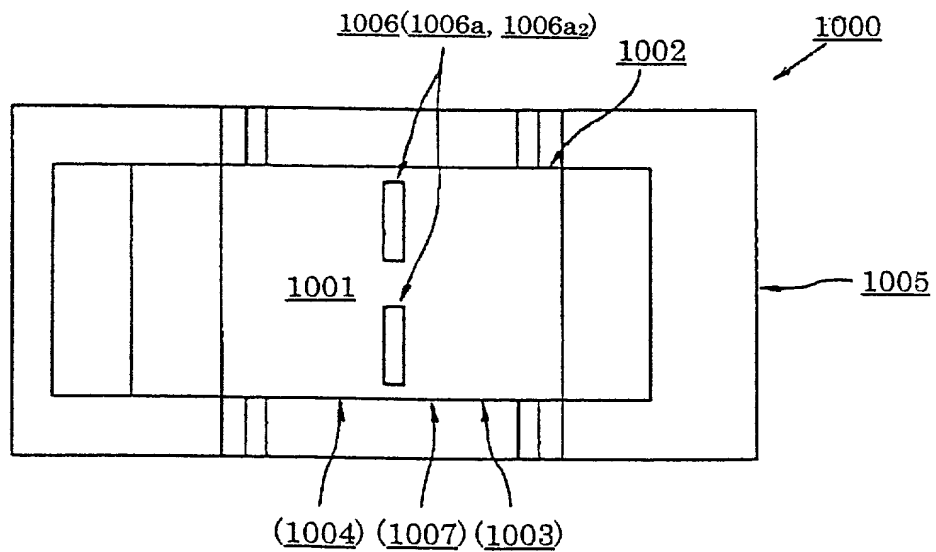


FIG. 88B



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FIG. 89A

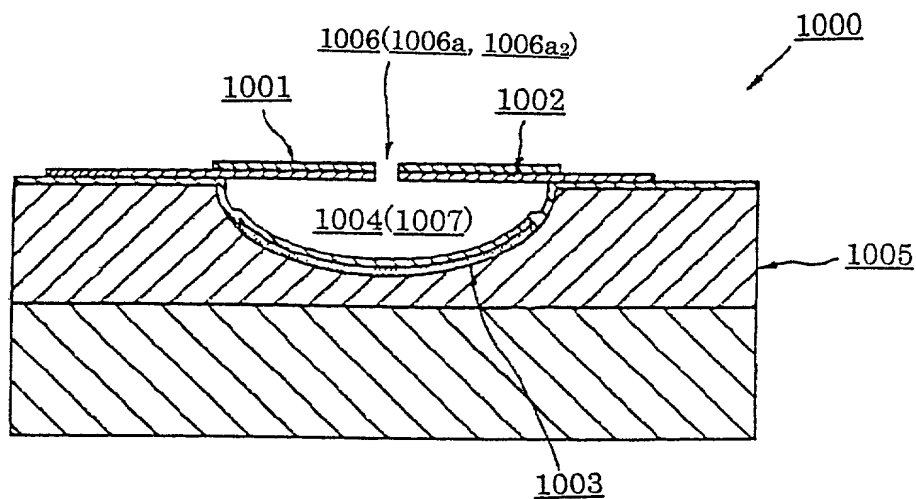


FIG. 89B

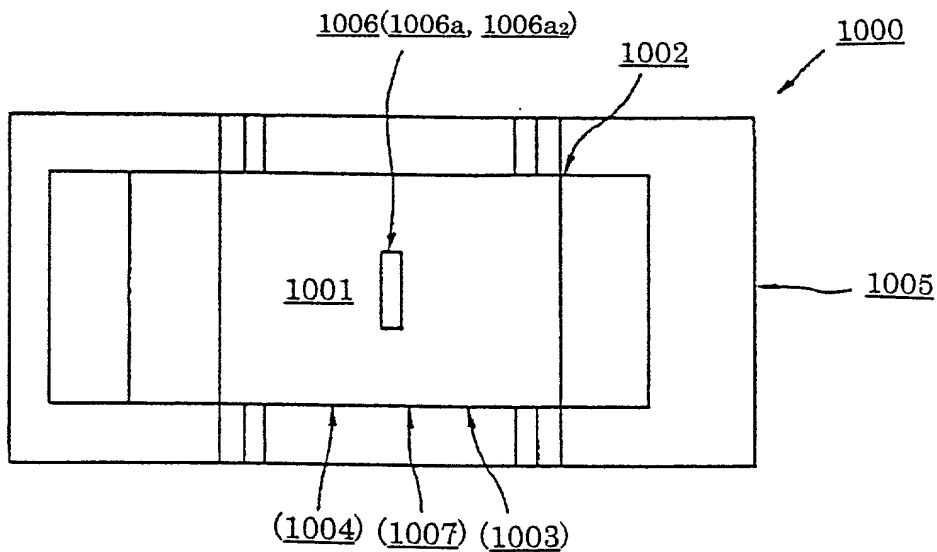


FIG. 90A

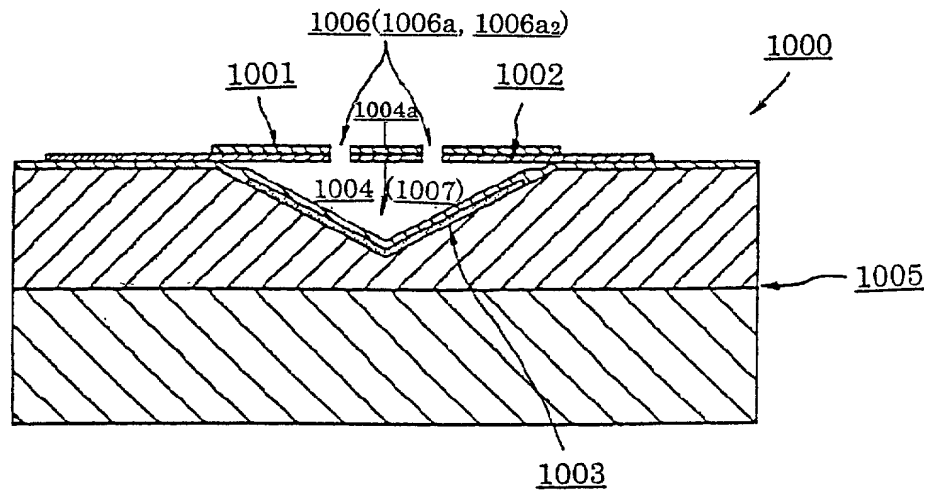
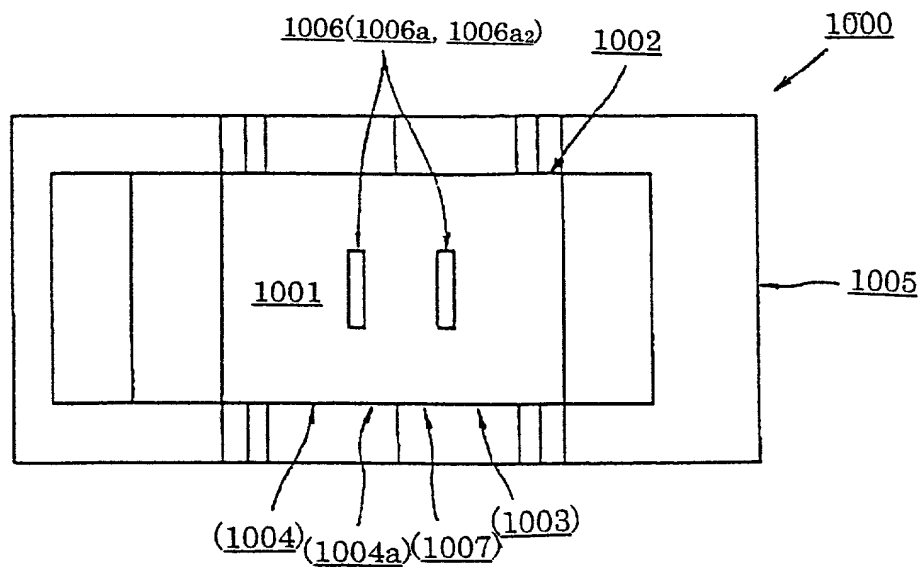


FIG. 90B



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FIG. 91A

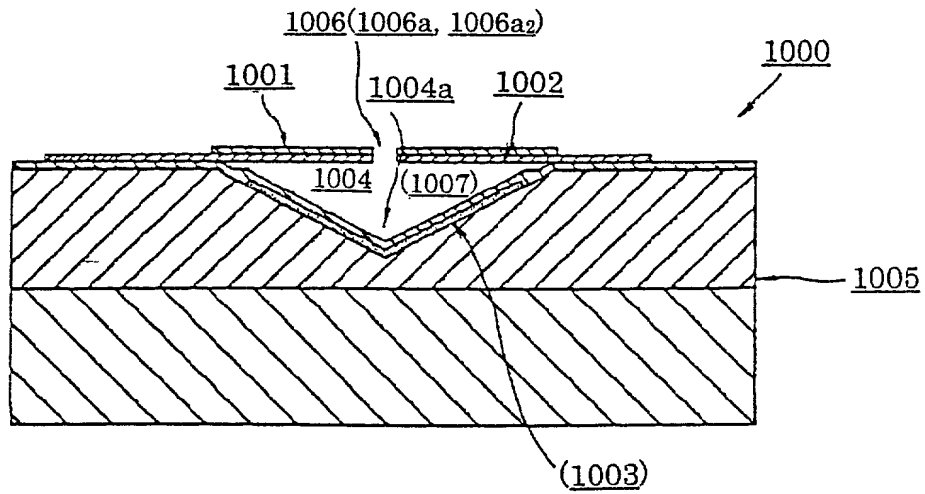
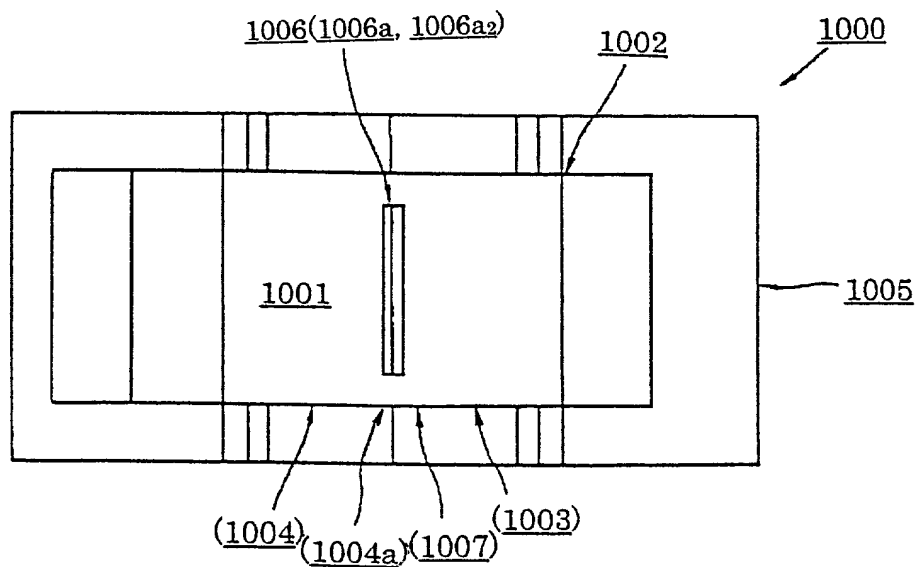


FIG. 91B



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FIG. 92A

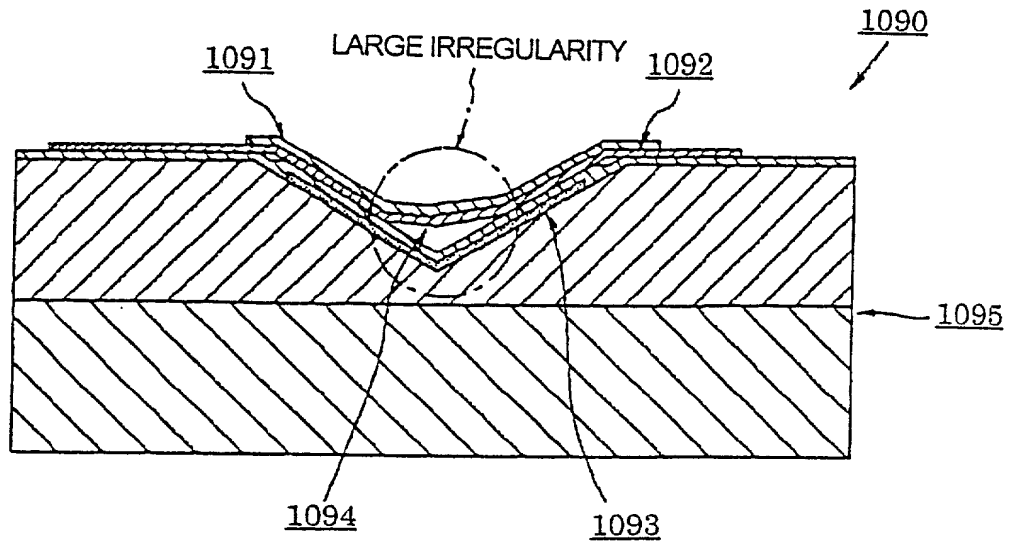
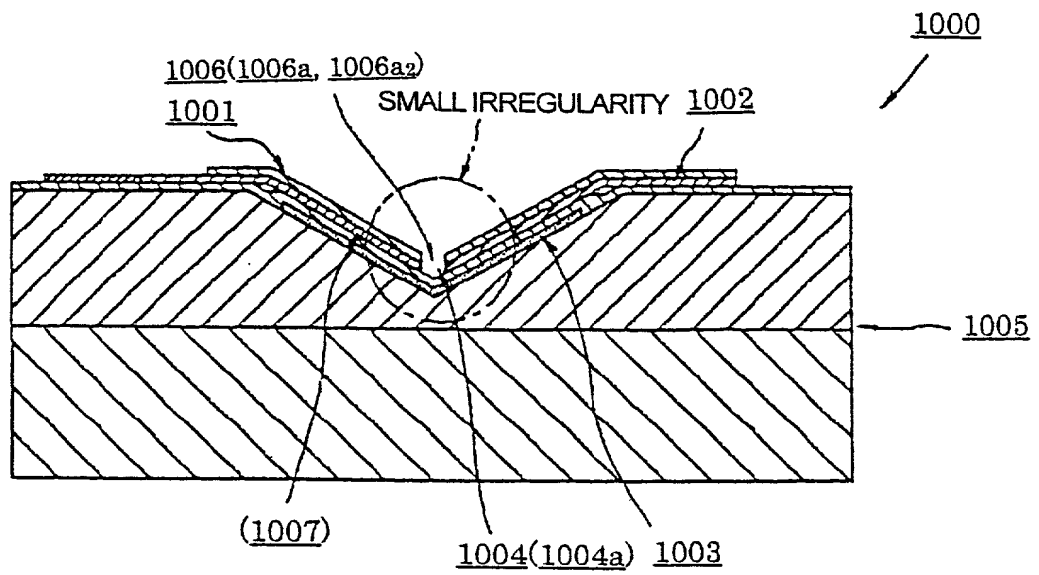


FIG. 92B



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FIG. 93A

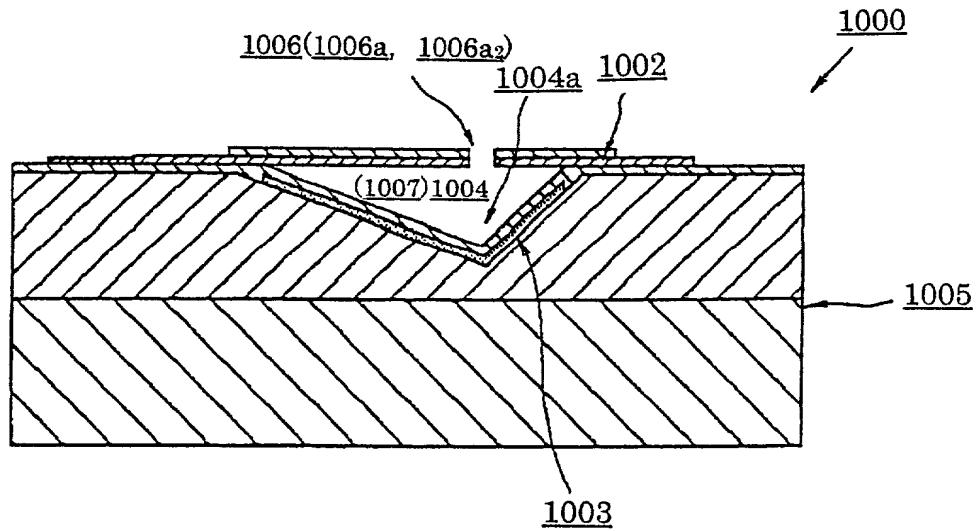


FIG. 93B

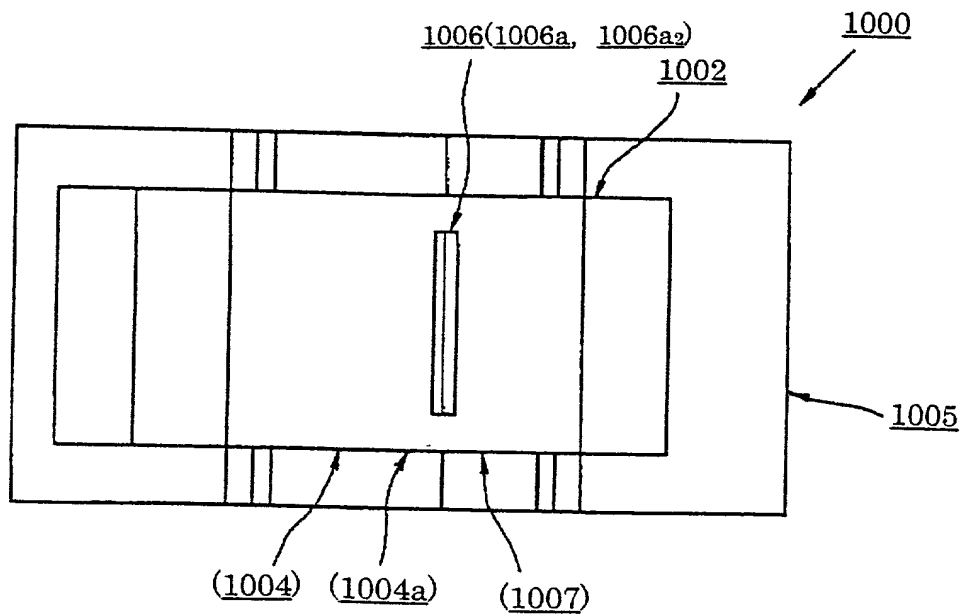


FIG. 94A

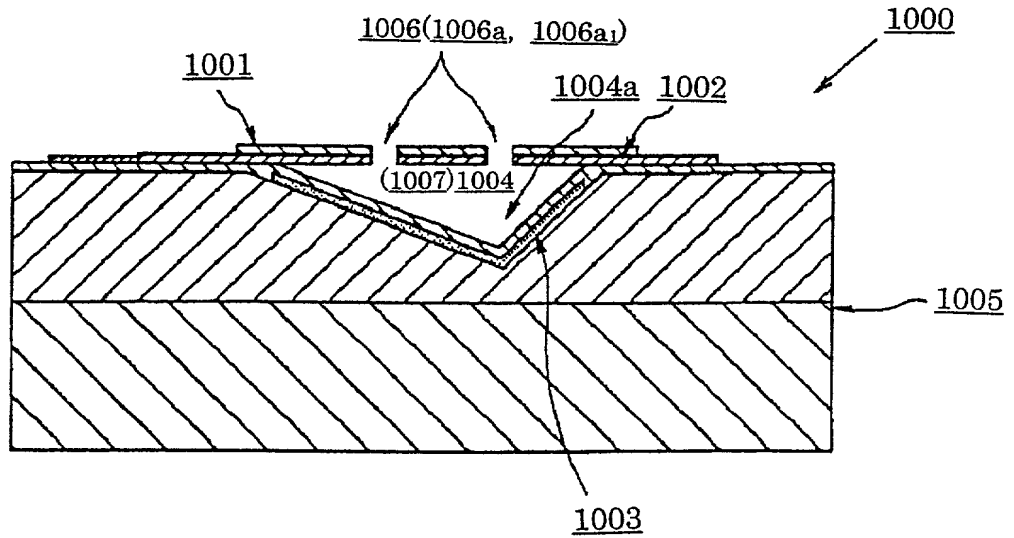


FIG. 94B

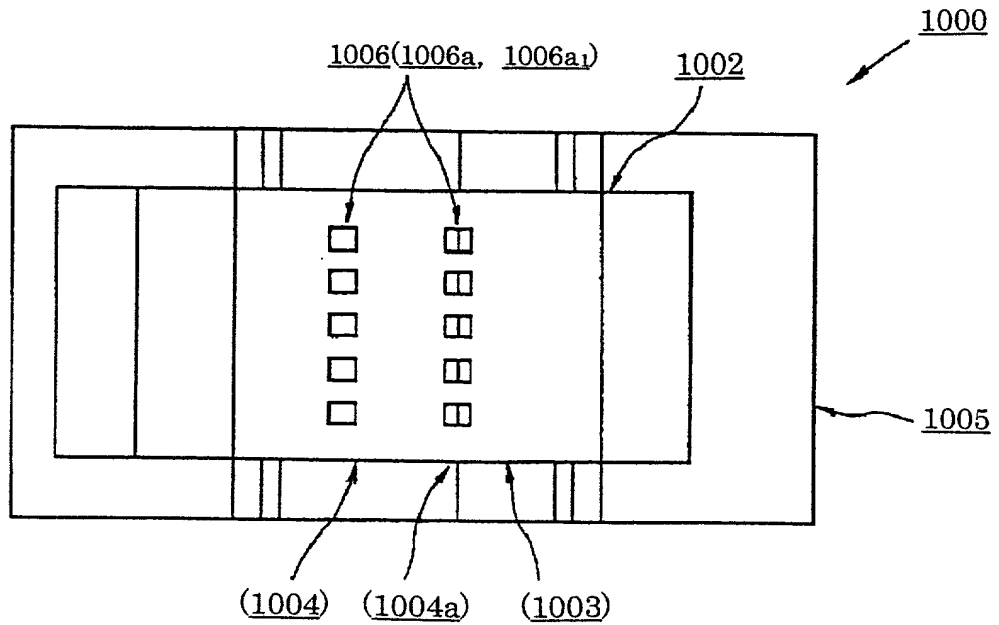


FIG. 95C

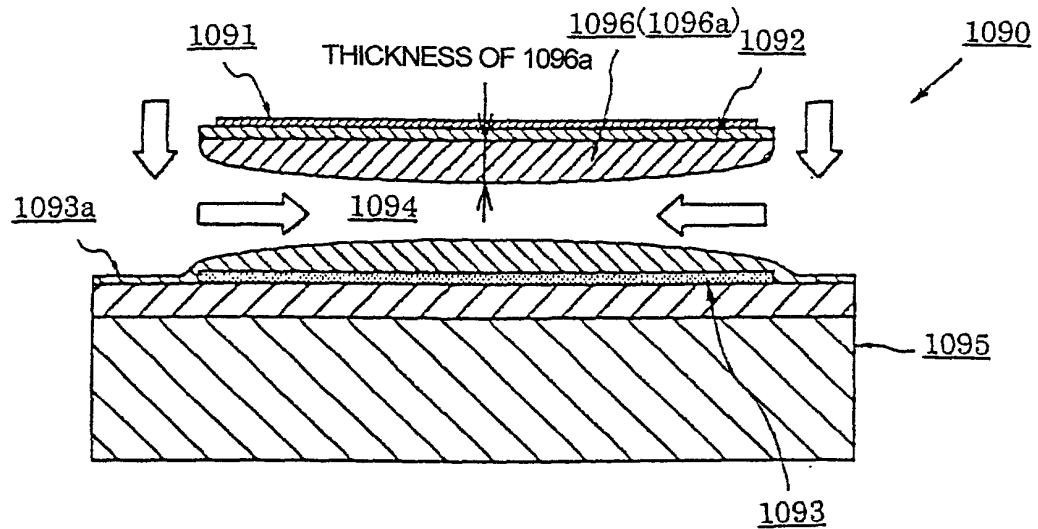
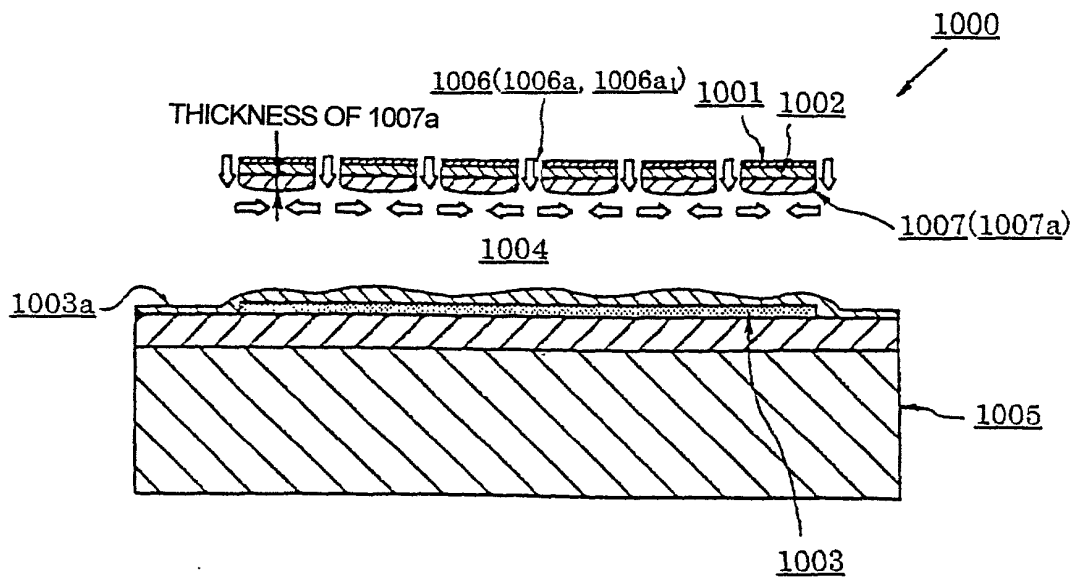


FIG. 95D



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FIG. 96A

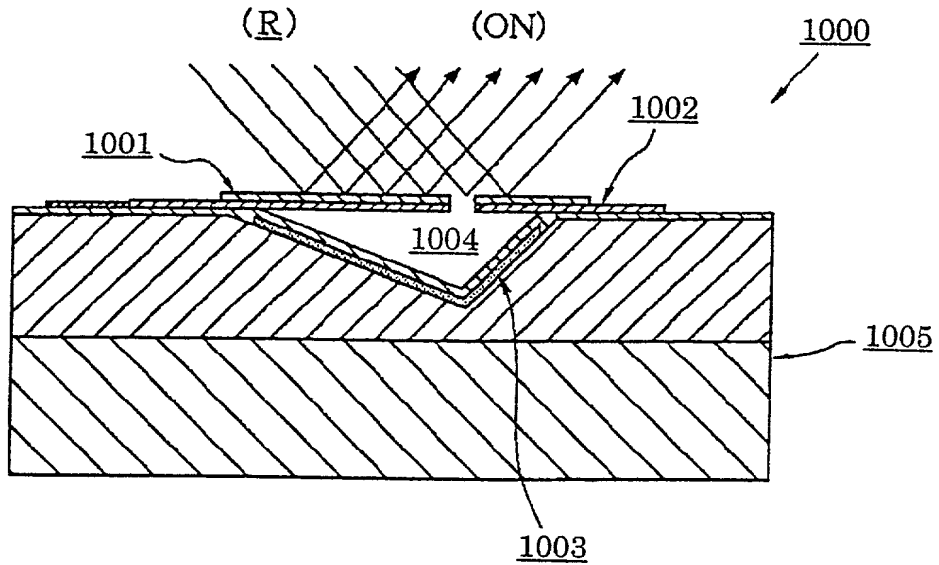


FIG. 96B

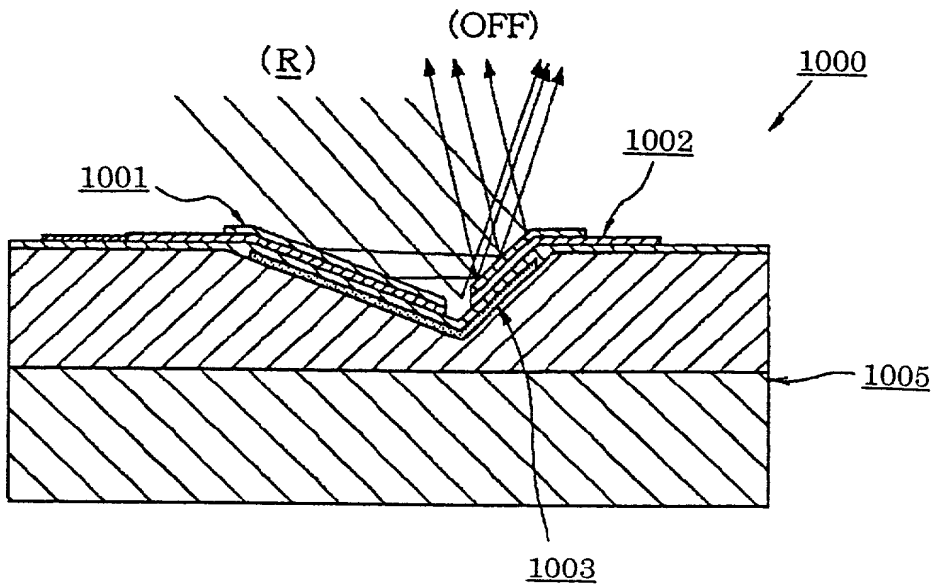


FIG. 97A

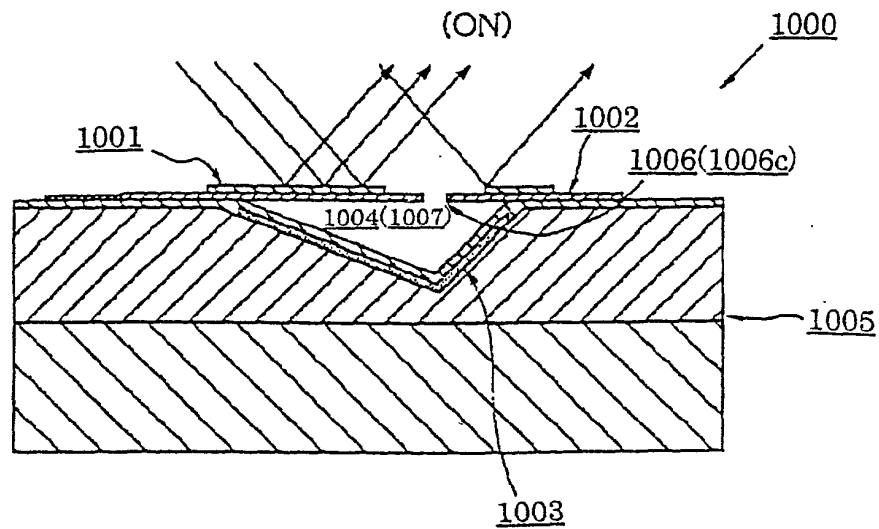
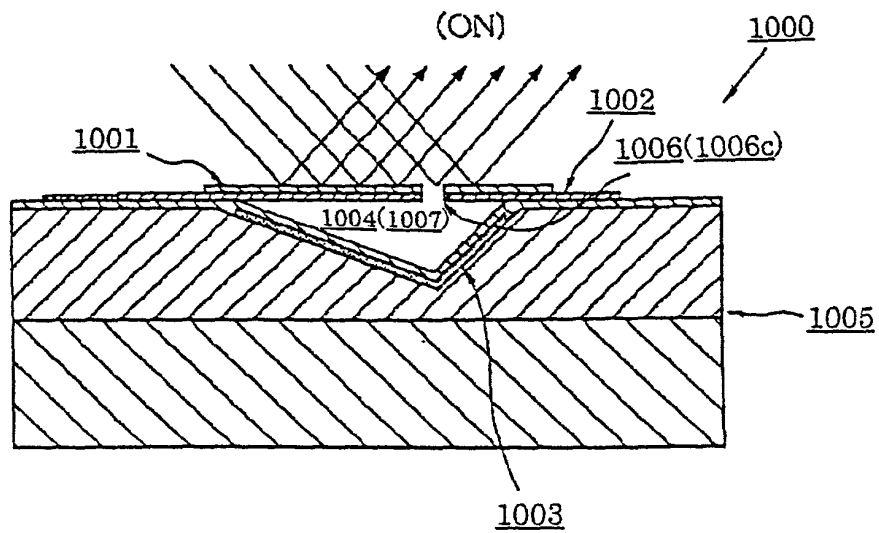


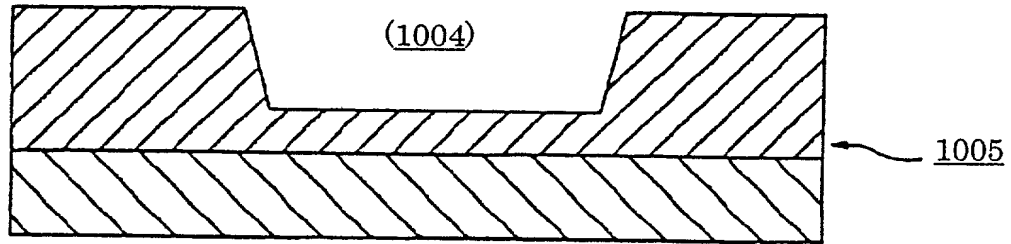
FIG. 97B



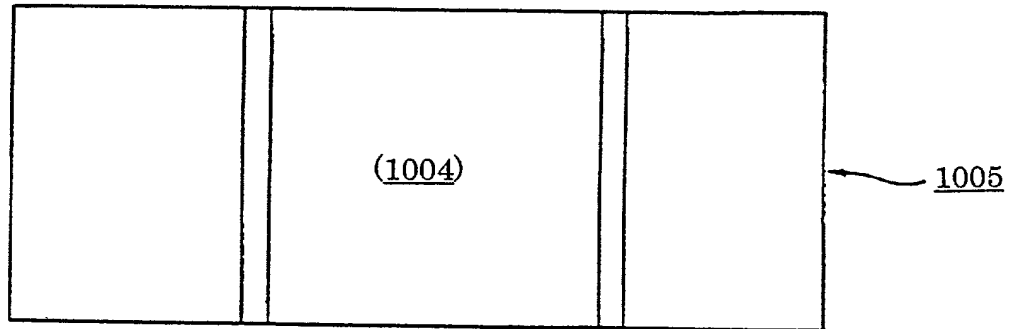
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FIG. 98

(a)



CROSS-SECTIONAL VIEW

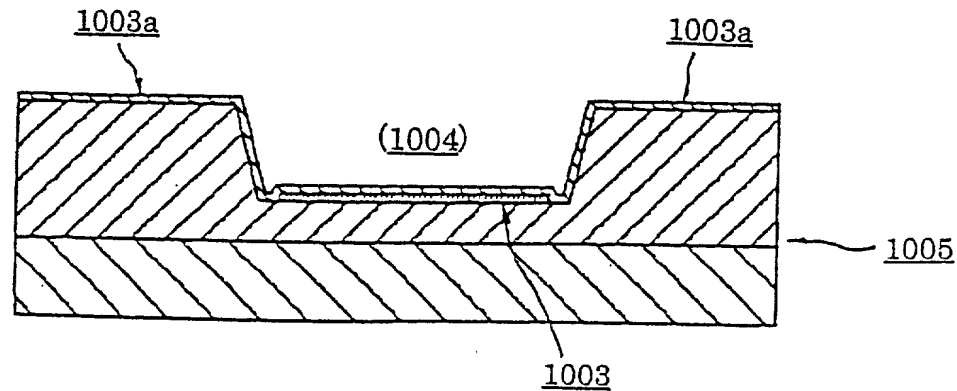


PLAN VIEW

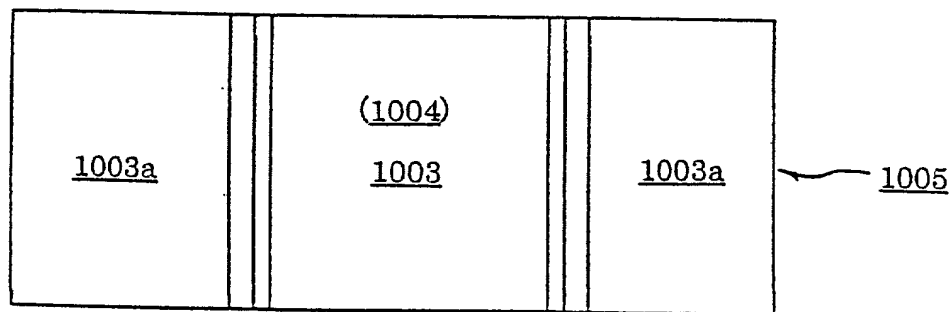
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FIG. 99

(b)



CROSS-SECTIONAL VIEW

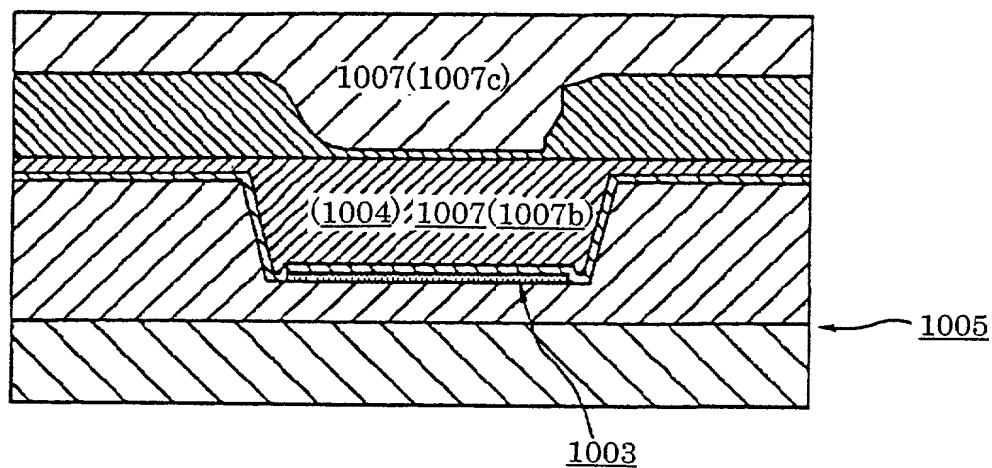


PLAN VIEW

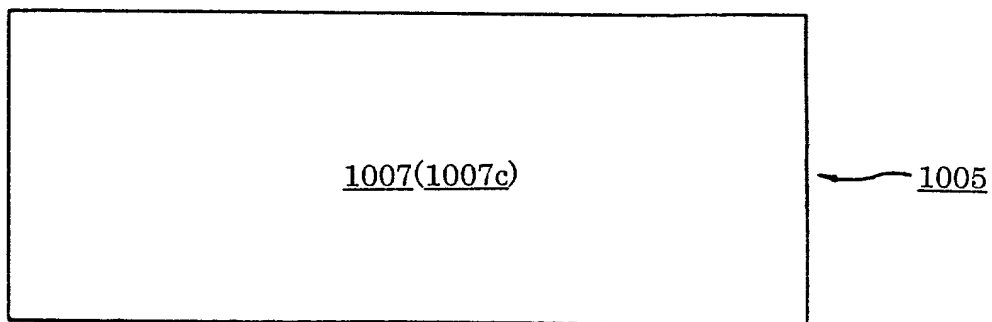
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FIG. 100

(c)



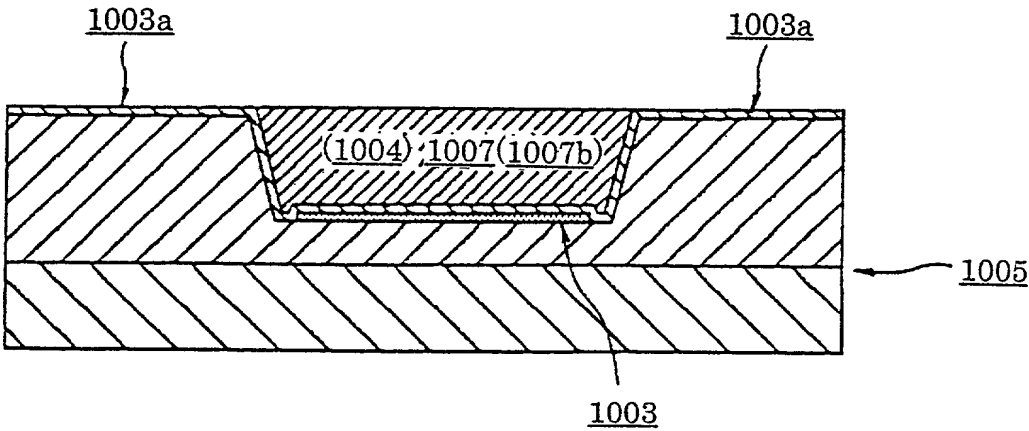
CROSS-SECTIONAL VIEW



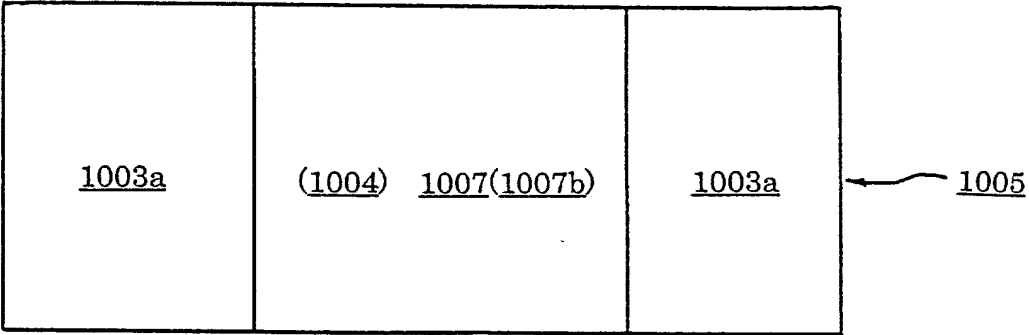
PLAN VIEW

FIG. 101

(d)



CROSS-SECTIONAL VIEW

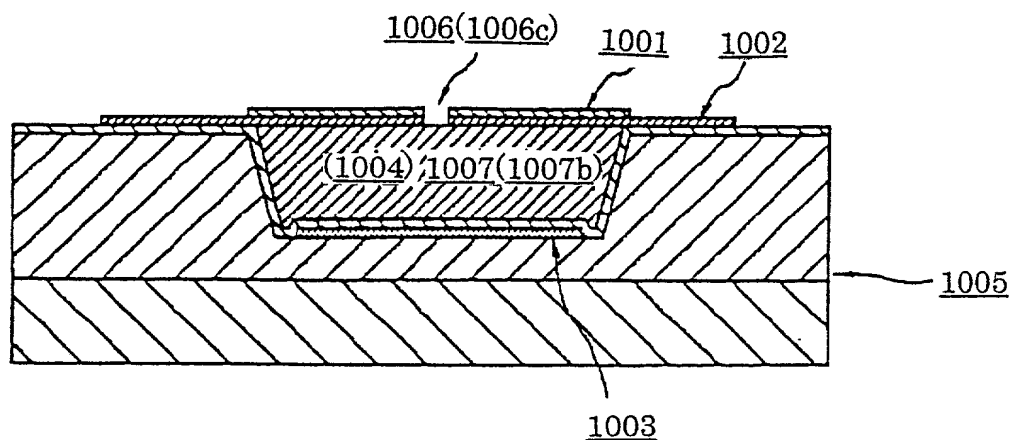


PLAN VIEW

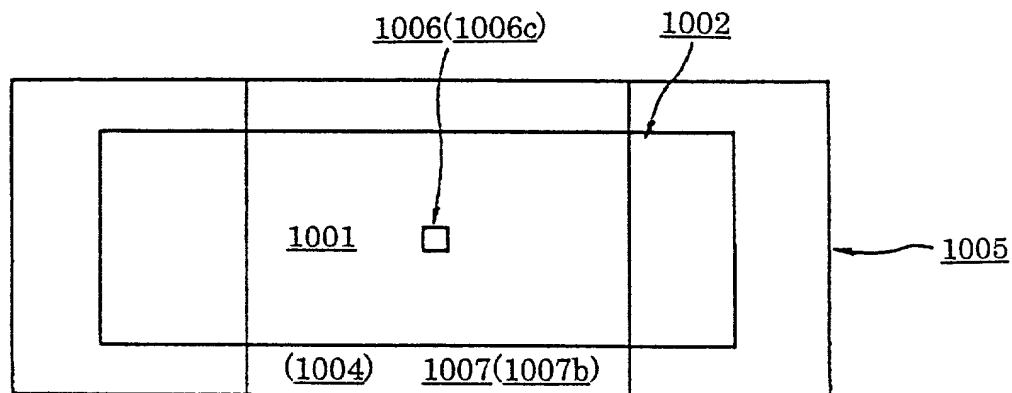
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FIG. 102

(e)



CROSS-SECTIONAL VIEW

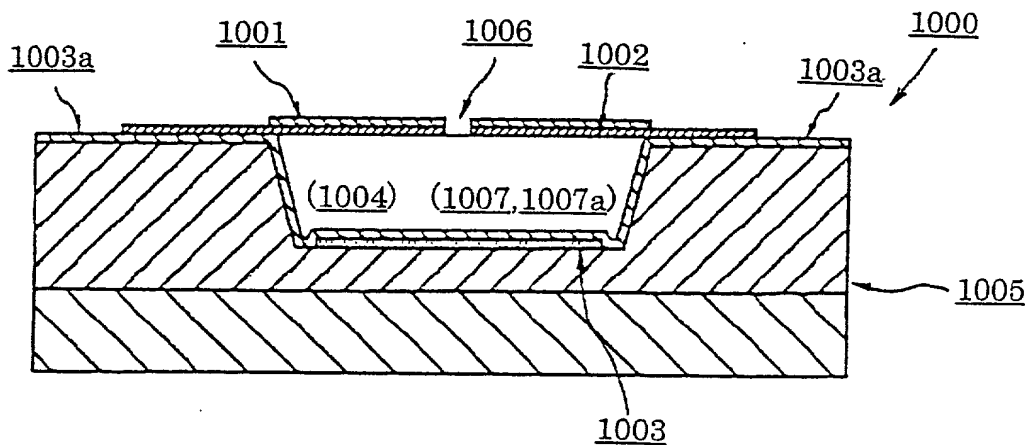


PLAN VIEW

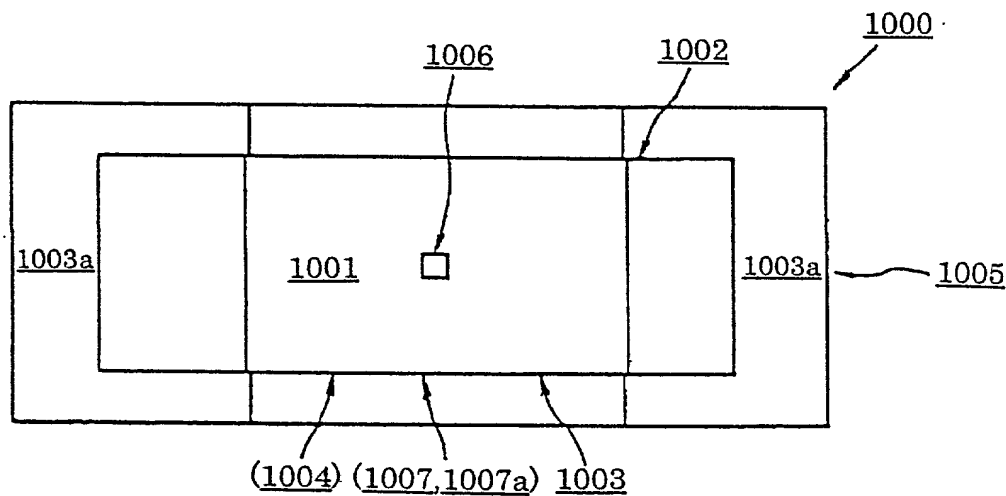
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FIG. 103

(f)



CROSS-SECTIONAL VIEW



PLAN VIEW

FIG. 104

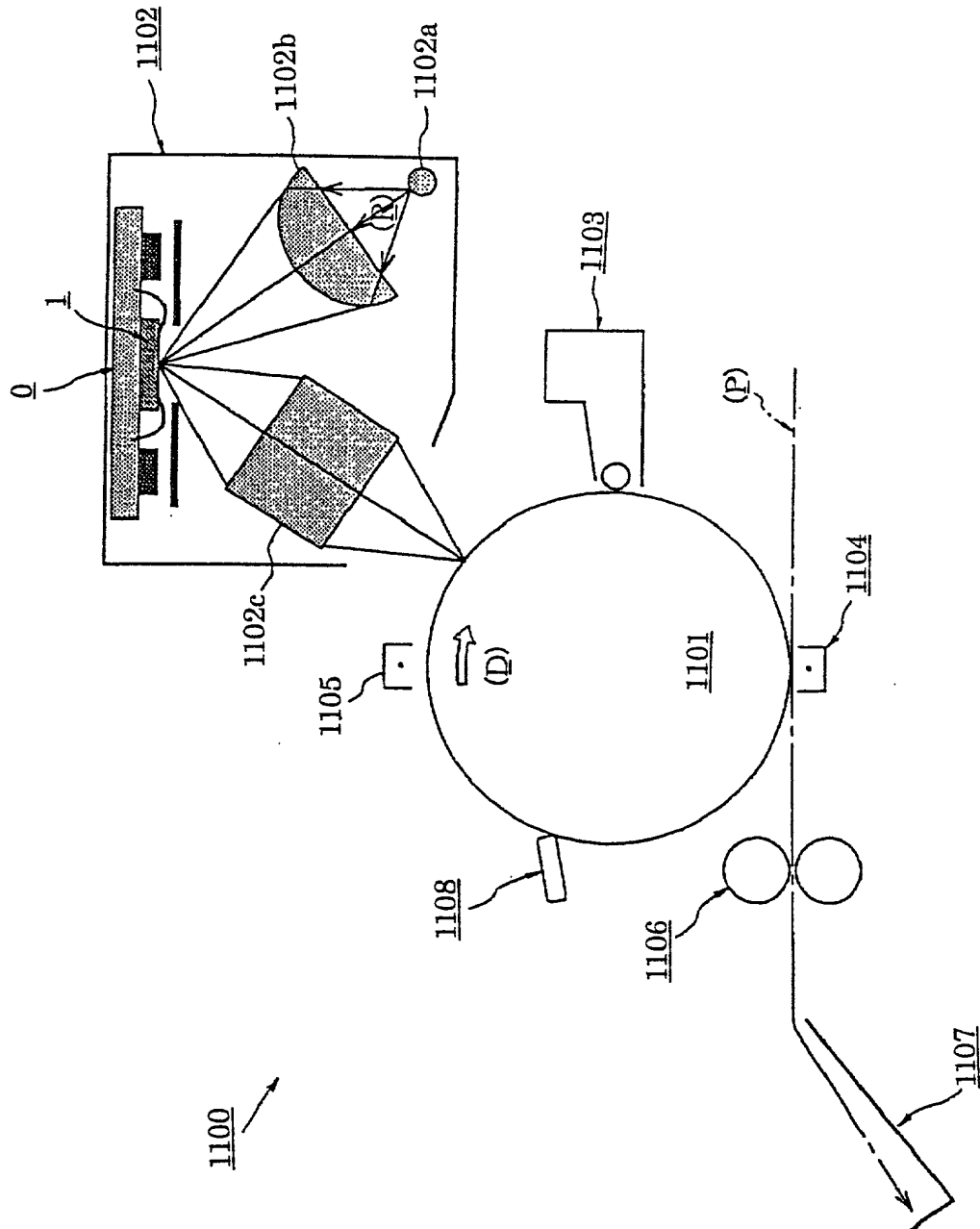


FIG. 105

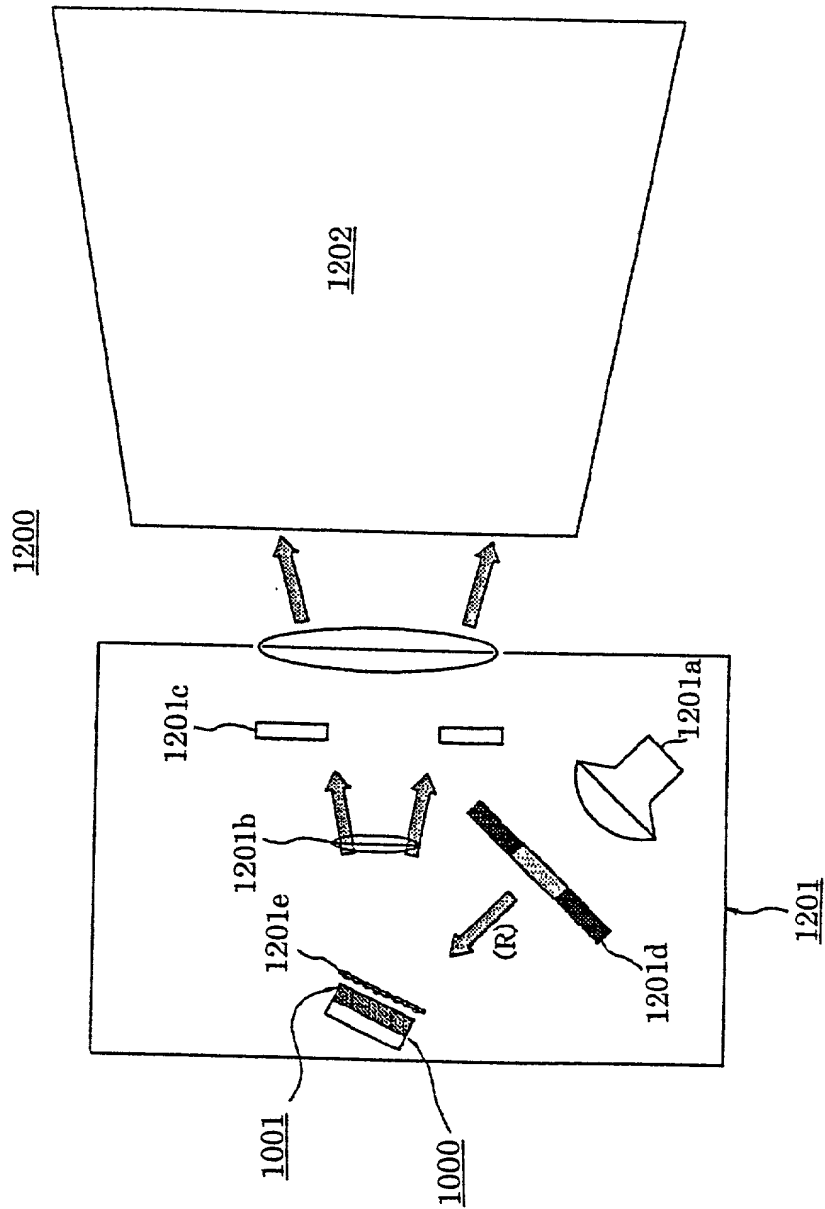


FIG. 106A

FIG. 106B

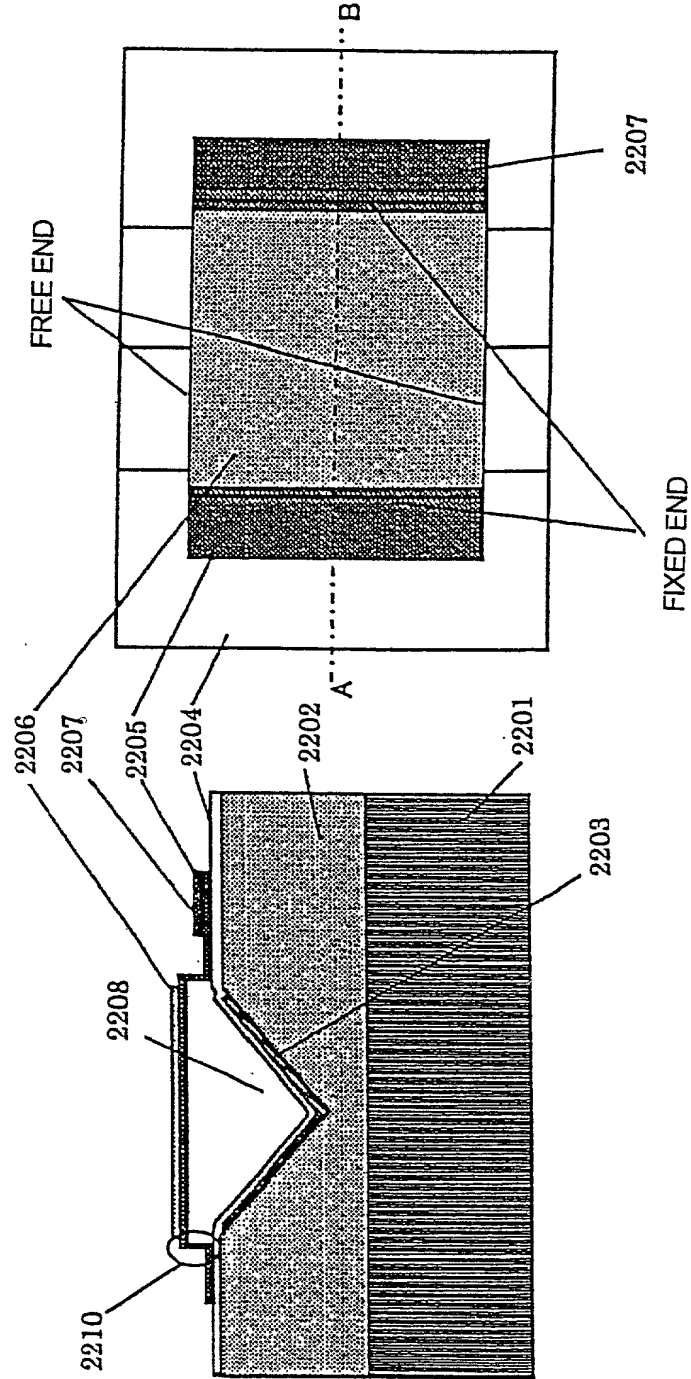


FIG. 107

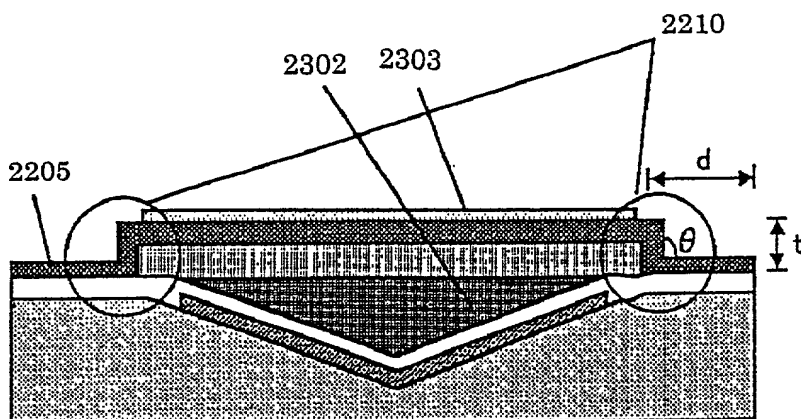


FIG. 108B

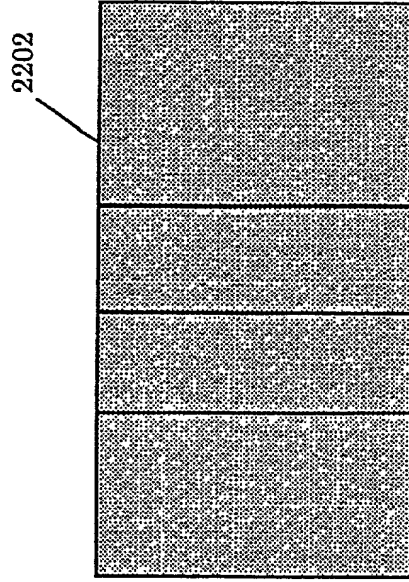


FIG. 108A

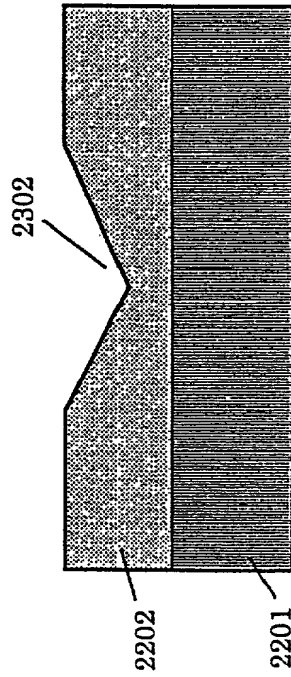


FIG. 109B

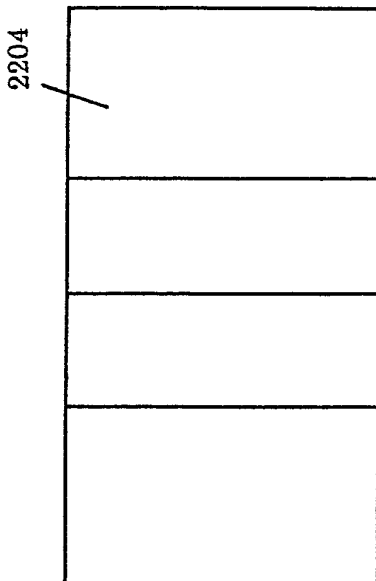


FIG. 109A

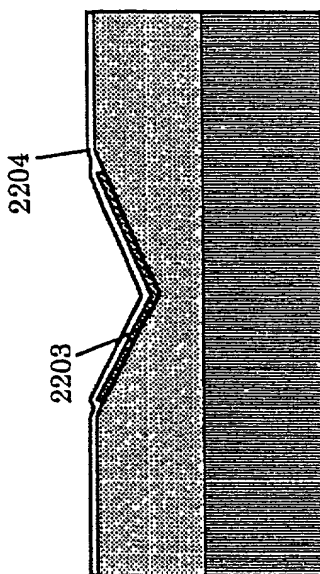


FIG. 110A

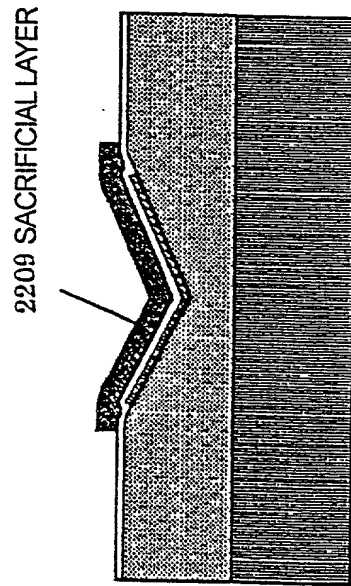


FIG. 110B

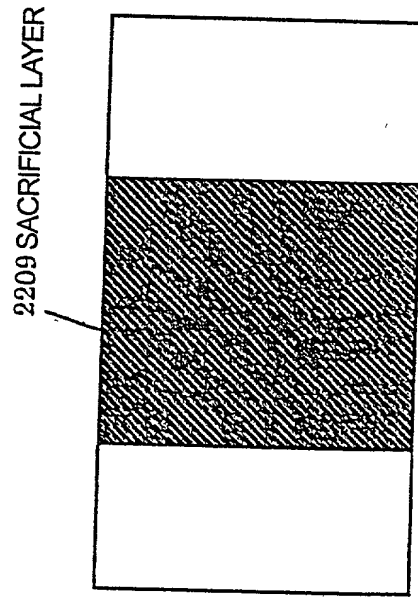


FIG. 111A

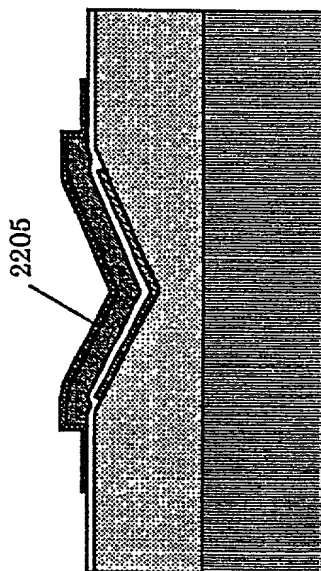


FIG. 111B

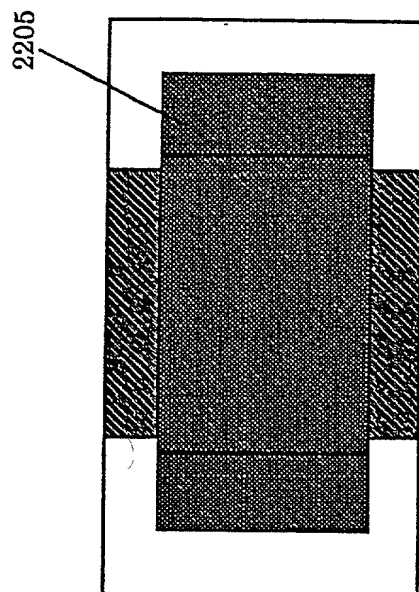


FIG. 112A

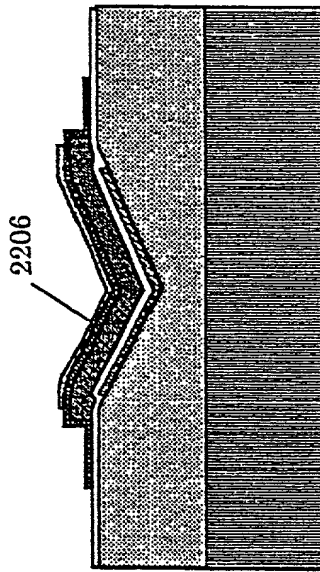
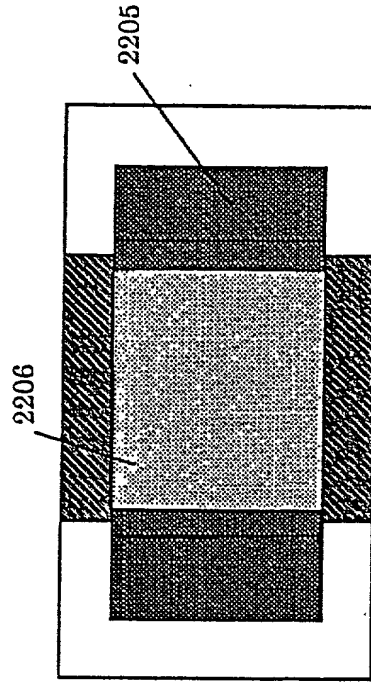


FIG. 112B



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FIG. 113A

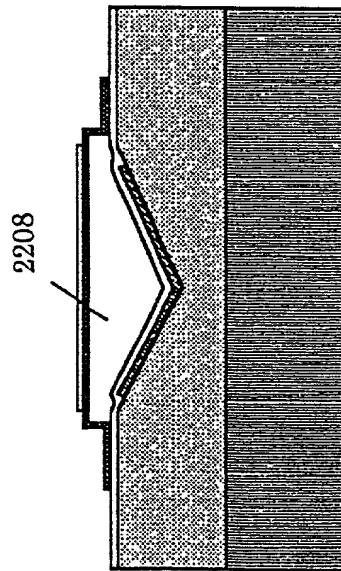


FIG. 113B

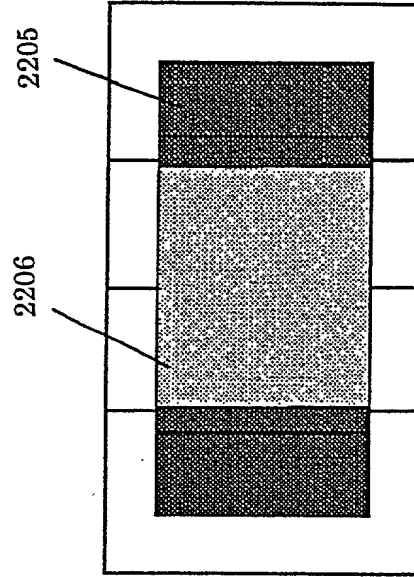


FIG. 114A

FIG. 114B

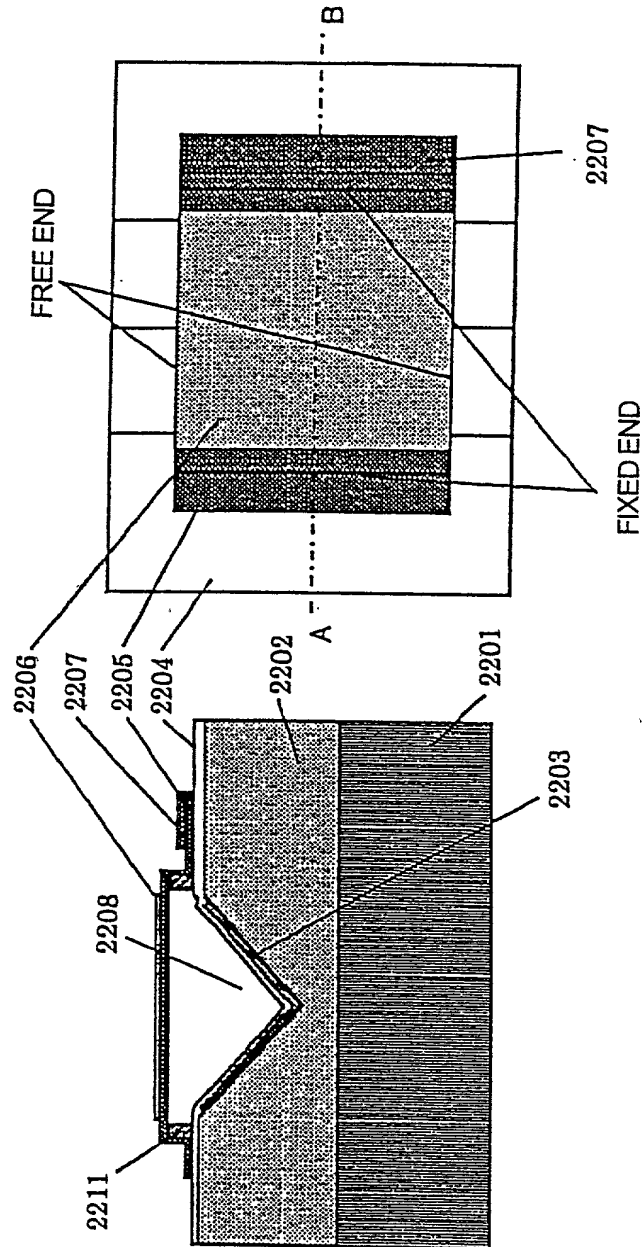


FIG. 115A

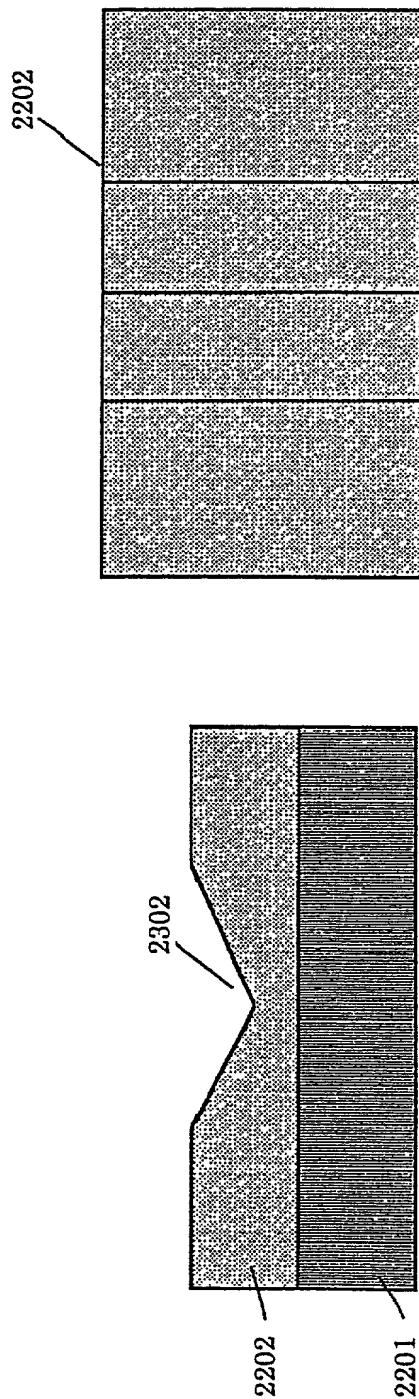


FIG. 115B

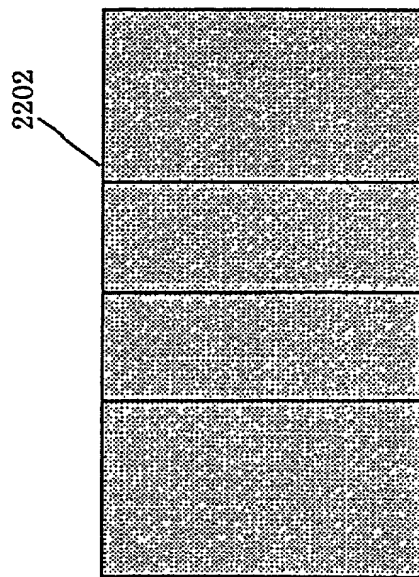


FIG. 116B

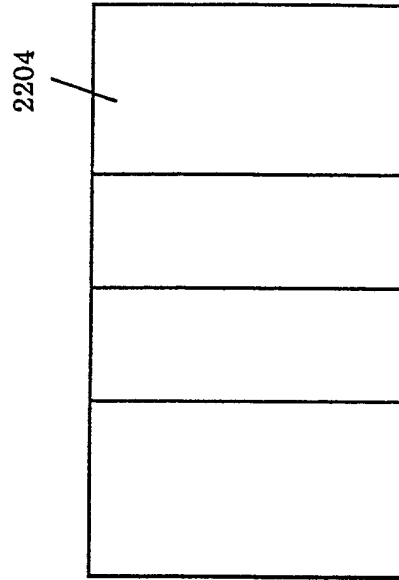


FIG. 116A

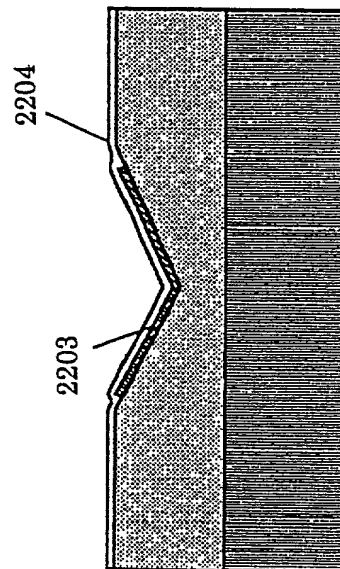


FIG. 117A

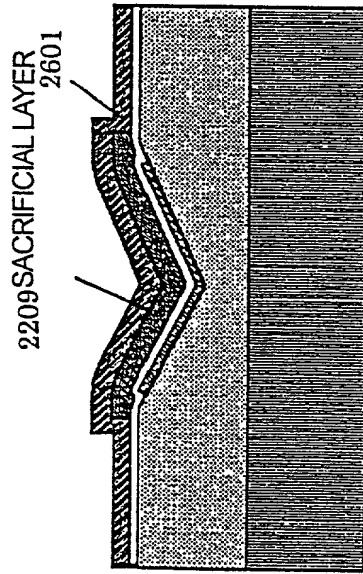


FIG. 117B

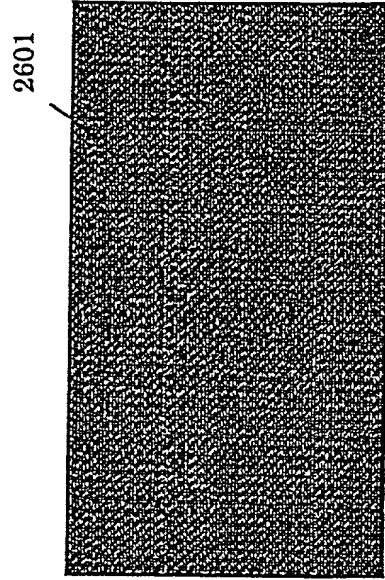


FIG. 118A

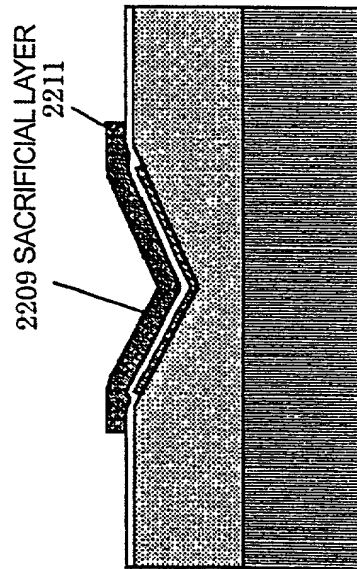


FIG. 118B

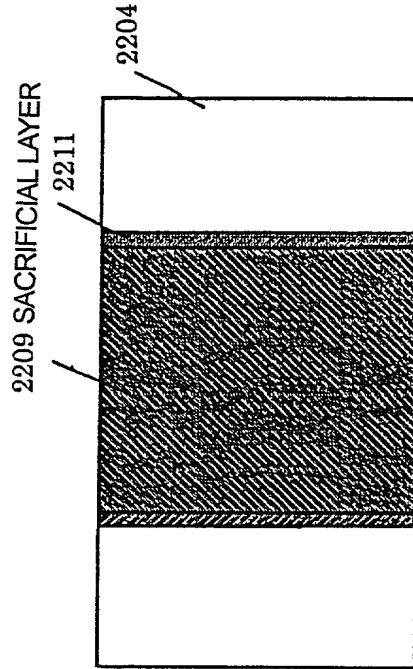


FIG. 119A

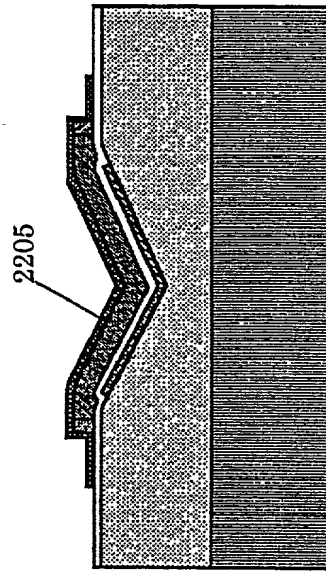
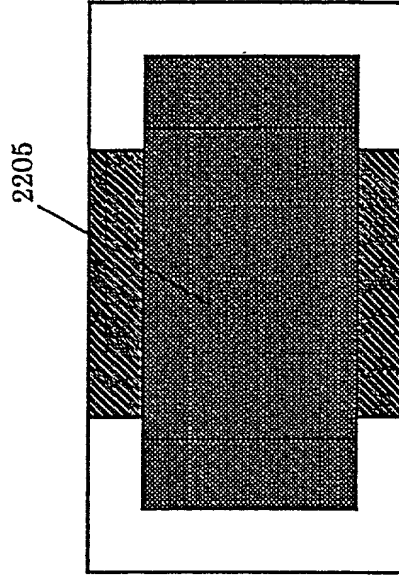


FIG. 119B



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FIG. 120A

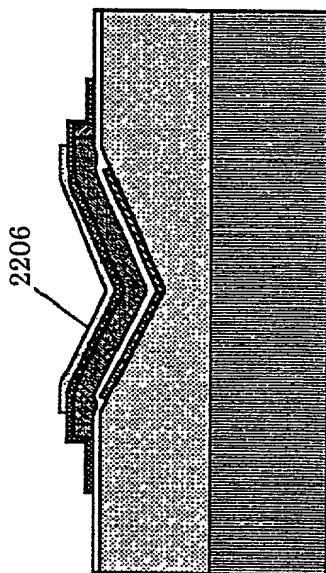


FIG. 120B

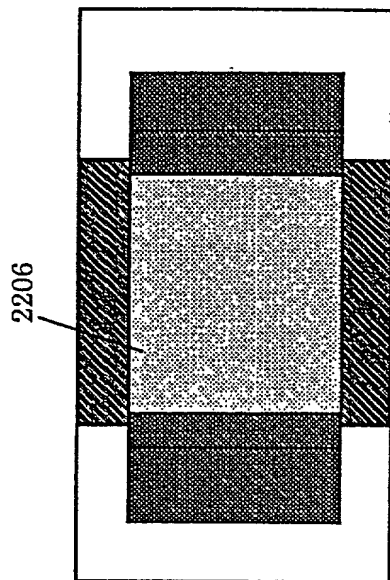


FIG. 121A

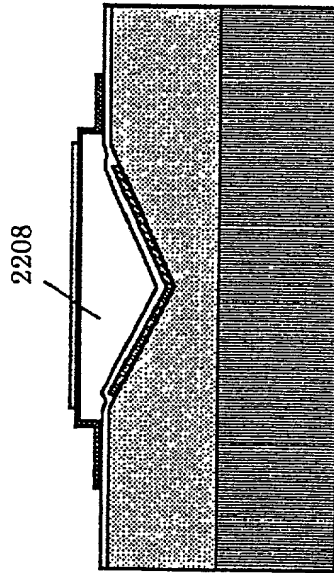


FIG. 121B

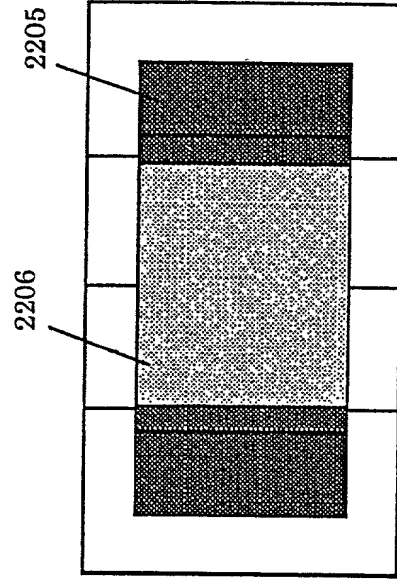
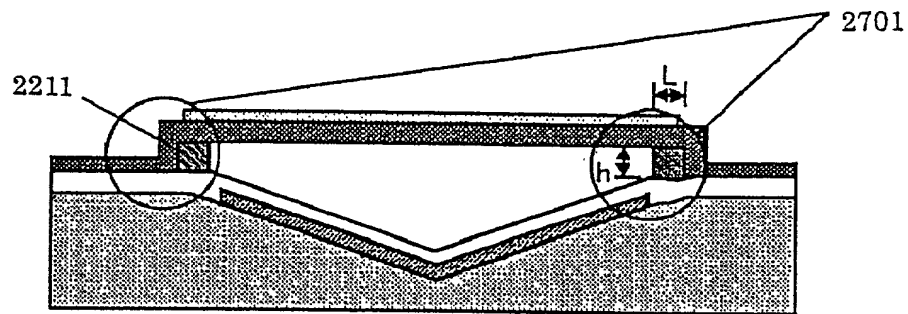


FIG. 122



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FIG. 123A

BEFORE REMOVAL OF SACRIFICIAL LAYER

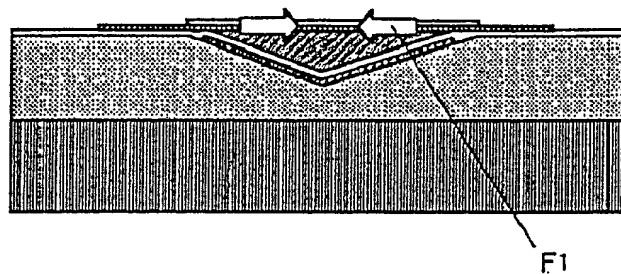
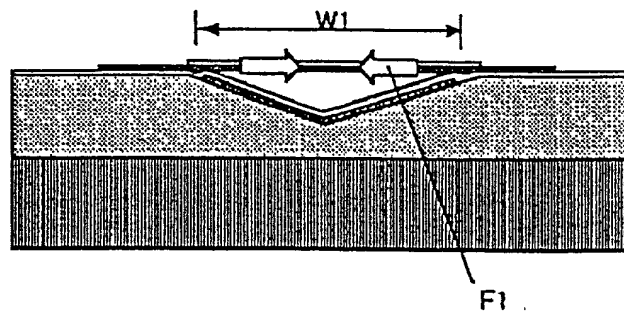


FIG. 123B

AFTER REMOVAL OF SACRIFICIAL LAYER



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FIG. 124A

BEFORE REMOVAL OF SACRIFICIAL LAYER

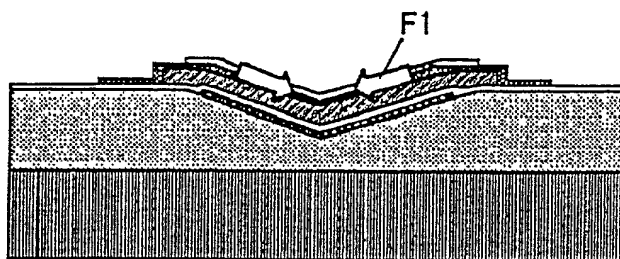


FIG. 124B

AFTER REMOVAL OF SACRIFICIAL LAYER

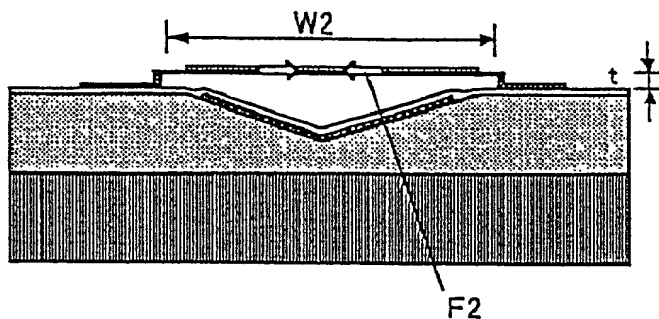


FIG. 125A

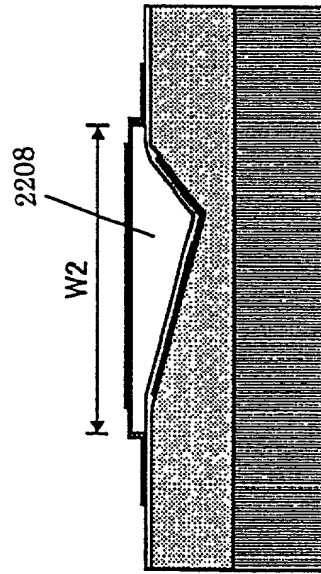


FIG. 125B

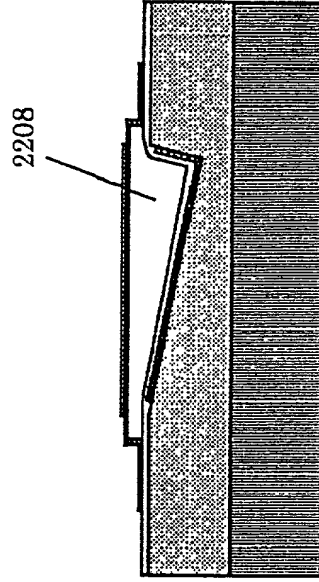


FIG. 126A

WHEN NO VOLTAGE IS APPLIED (ON OPERATION STATE)

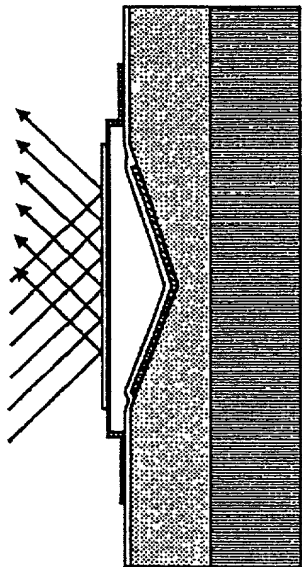


FIG 126C

WHEN HIGH VOLTAGE IS APPLIED (OFF OPERATION STATE)

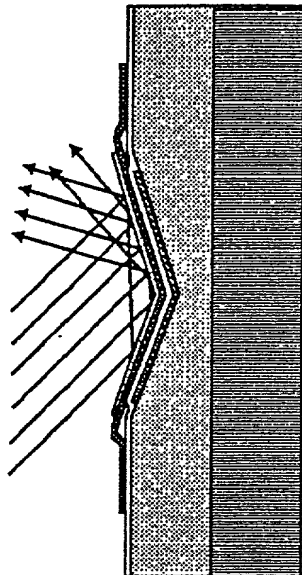


FIG. 126B

WHEN LOW VOLTAGE IS APPLIED (TRANSIENT STATE)

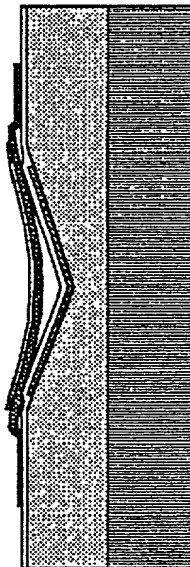


FIG 126D

DEFORMATION OF FIXED SECTION IN TRANSIENT STATE

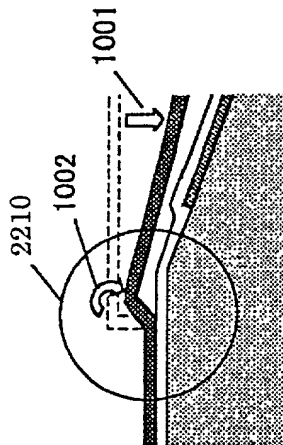
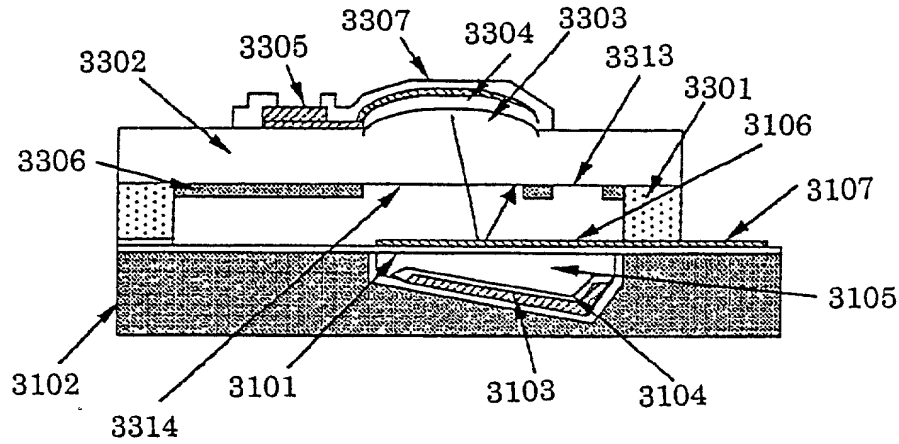
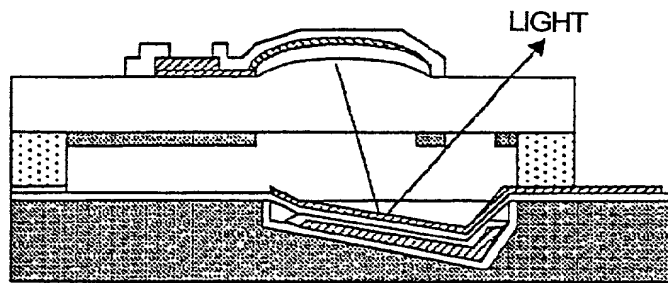


FIG. 127A



NON-DRIVEN STATE

FIG. 127B



DRIVEN STATE

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FIG. 128A

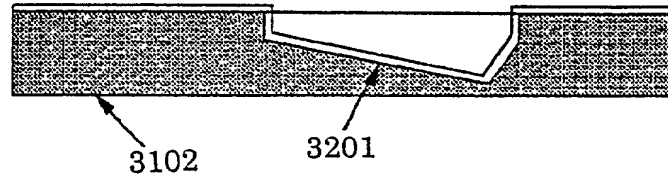


FIG 128B

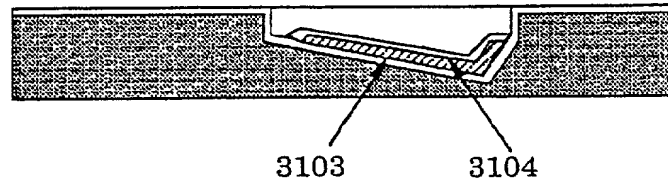


FIG 128C

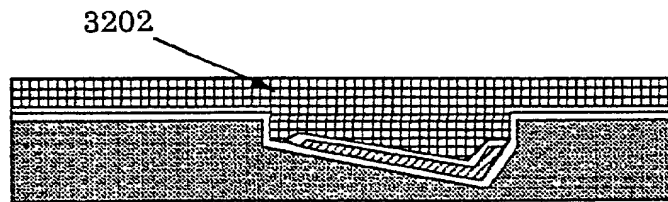
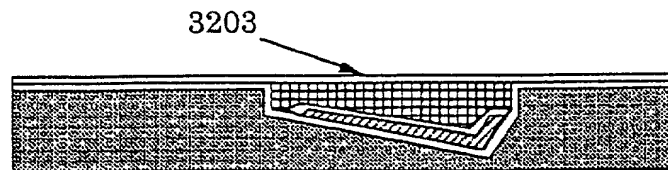


FIG 128D



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FIG. 129A

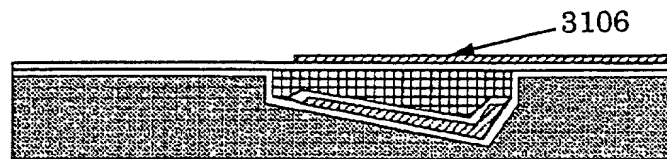
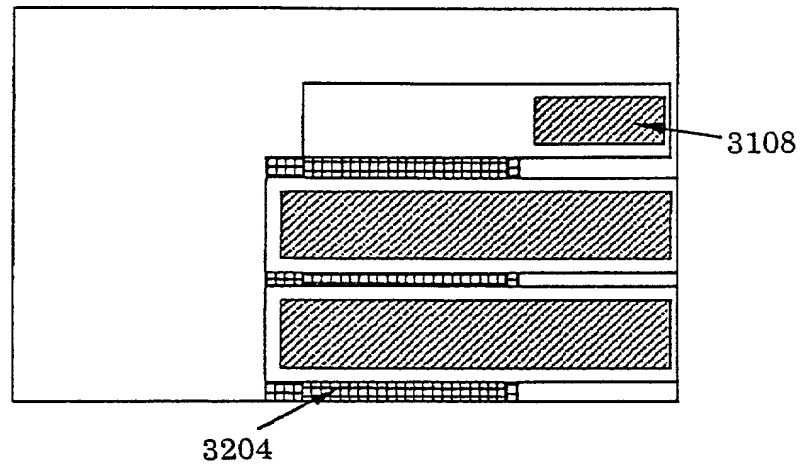


FIG. 129B



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FIG. 130A

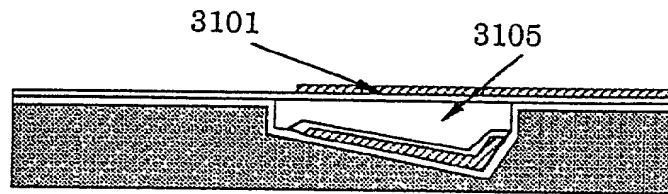
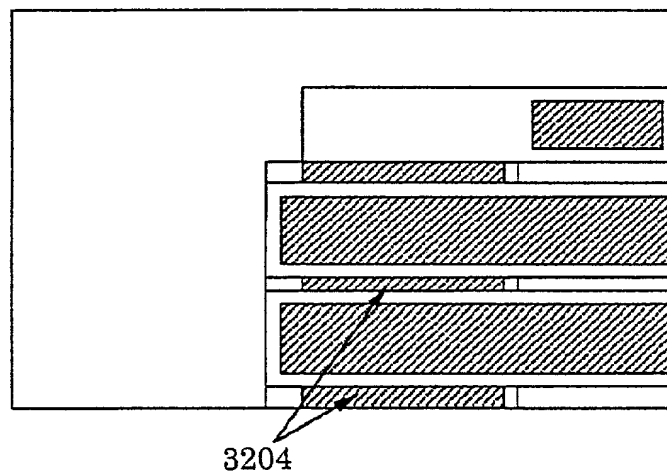


FIG. 130B



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FIG. 131A

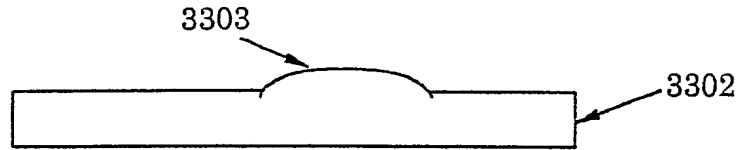


FIG. 131B

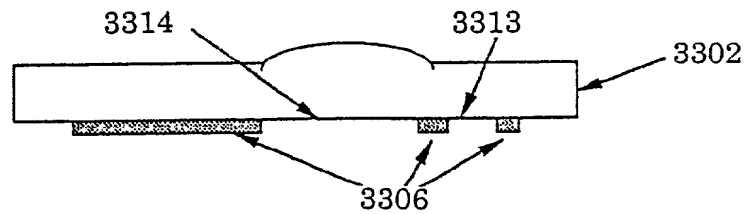


FIG. 131C

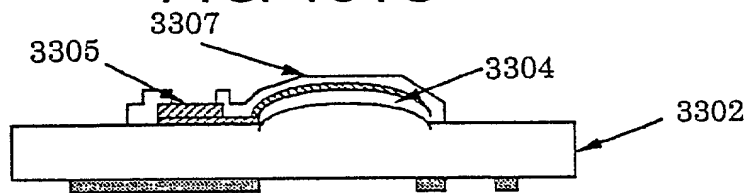
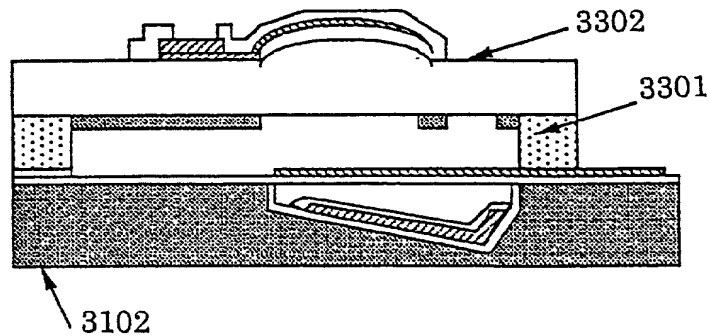


FIG. 131D



FIG. 131E



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FIG. 132A

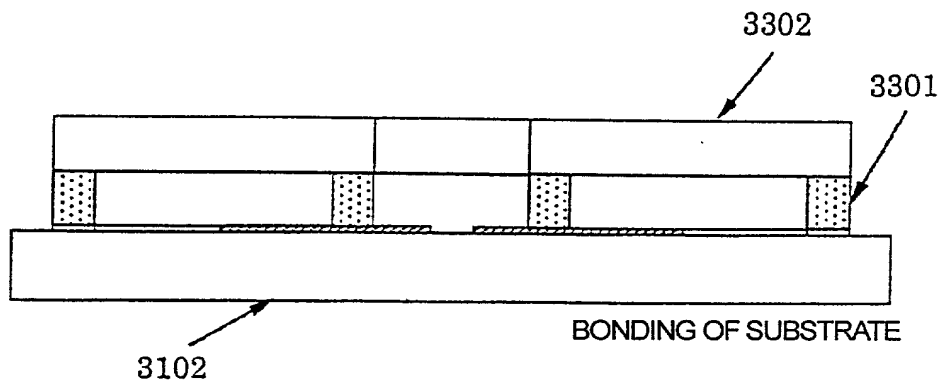


FIG. 132B

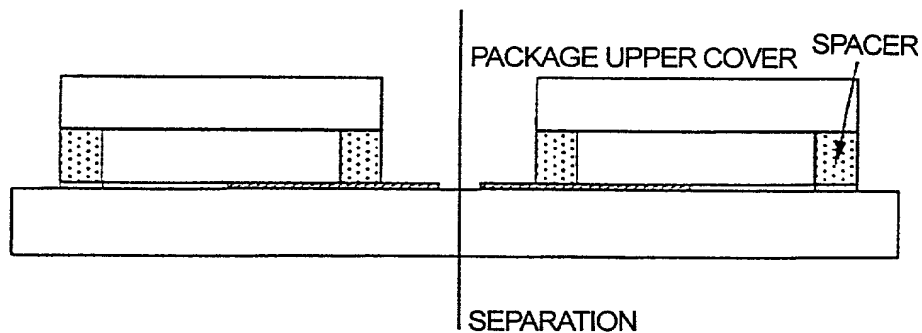
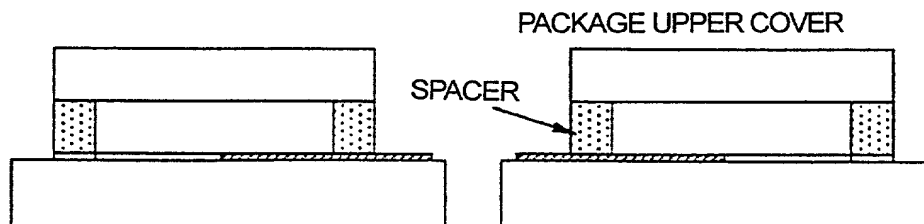


FIG. 132C



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FIG. 133A

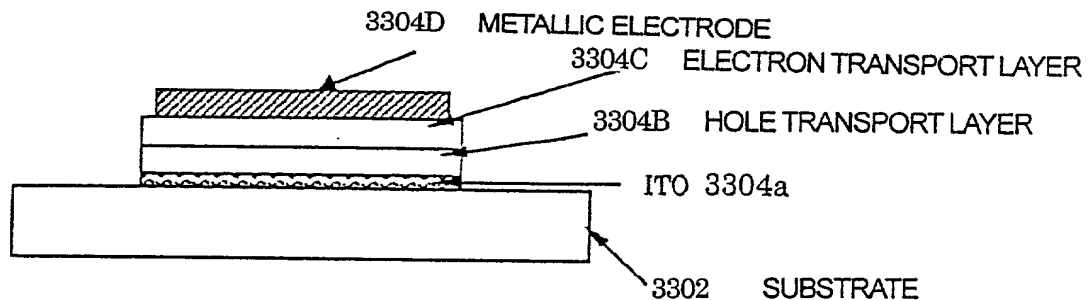
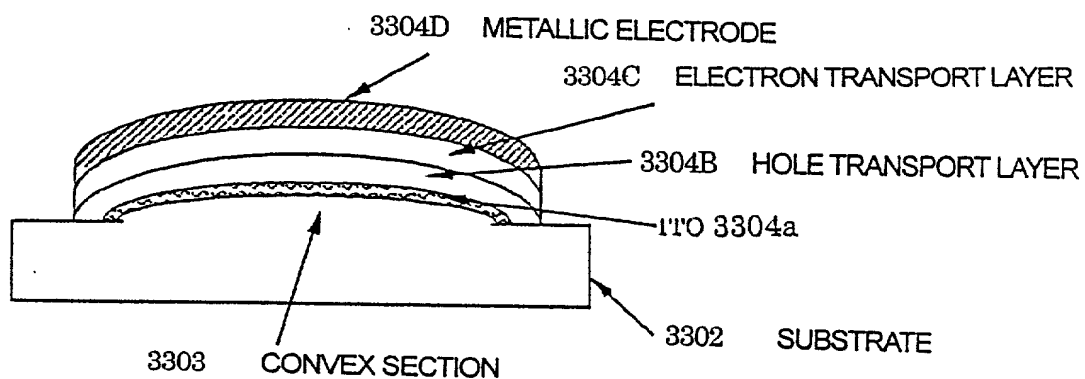


FIG. 133B



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FIG. 134A

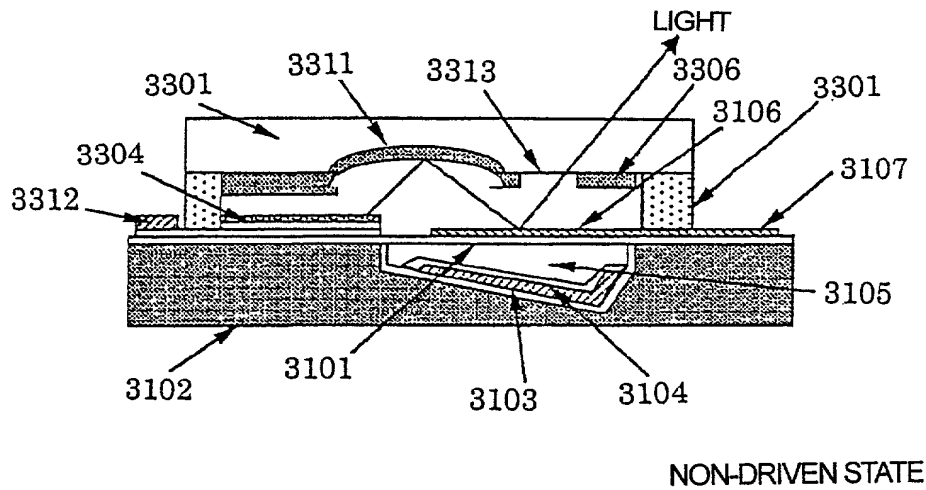
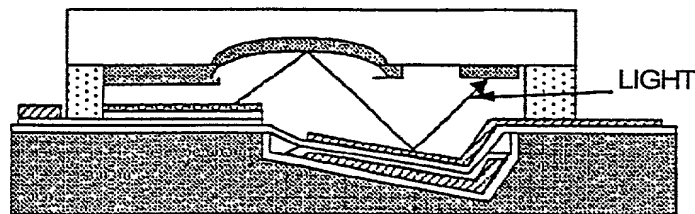


FIG. 134B



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FIG. 135A

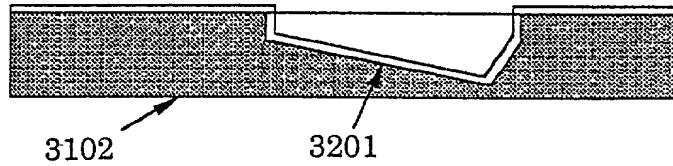


FIG. 135B

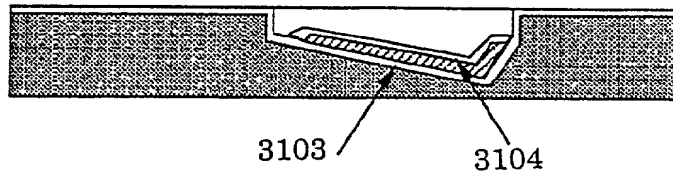


FIG. 135C

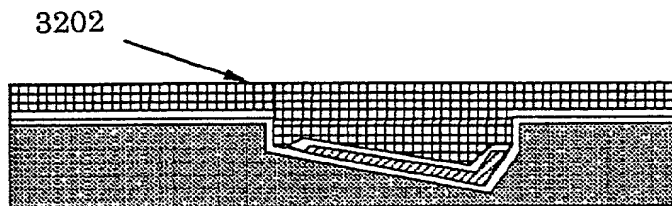
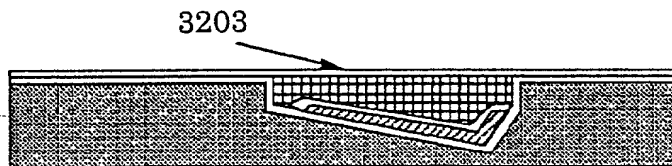


FIG. 135D



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FIG. 136A

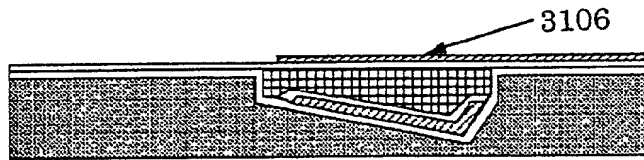
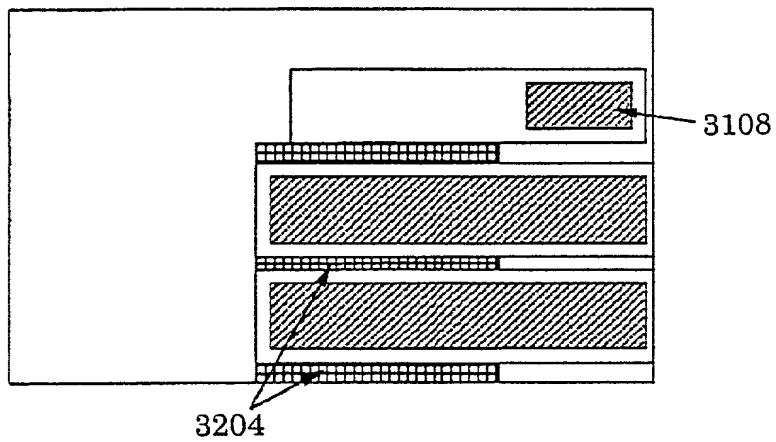


FIG. 136B



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FIG. 136C

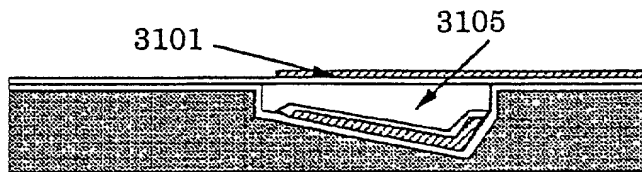
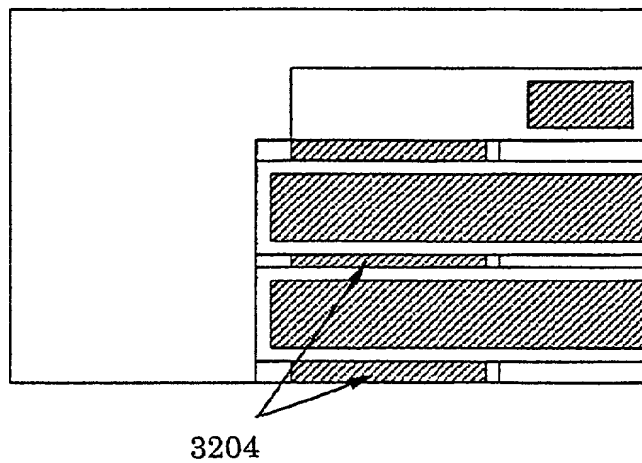


FIG. 136D



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FIG. 137A

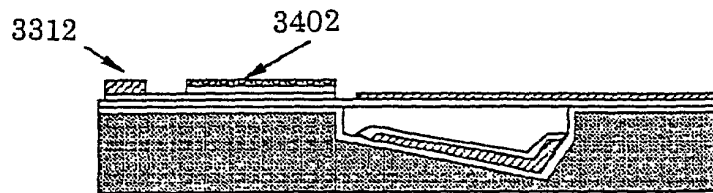
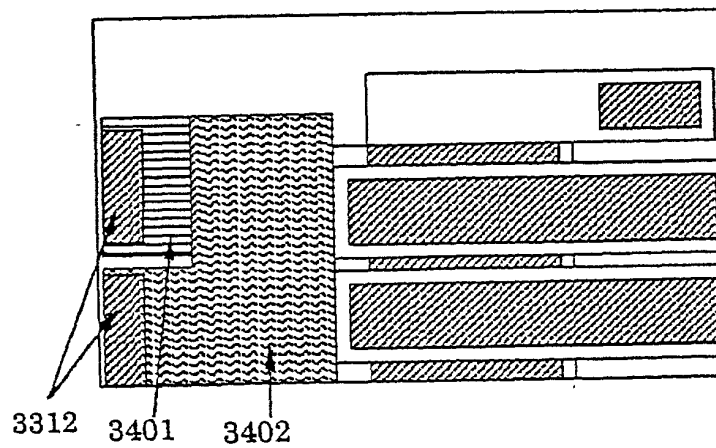


FIG. 137B



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FIG. 137C

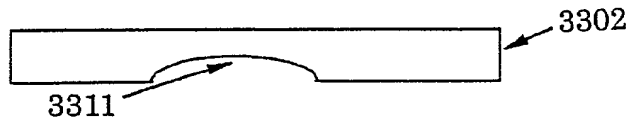


FIG. 137D

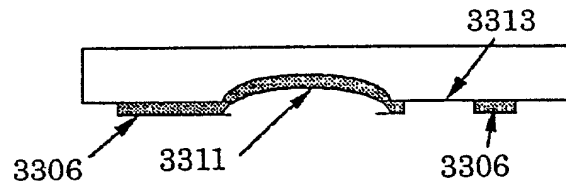


FIG. 137E

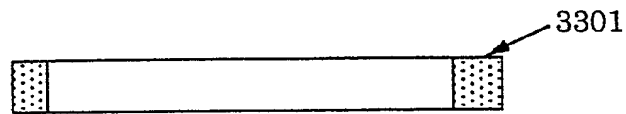
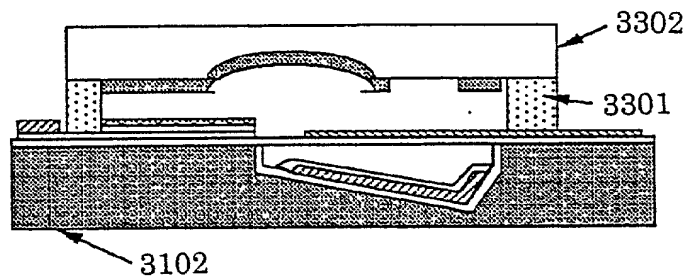
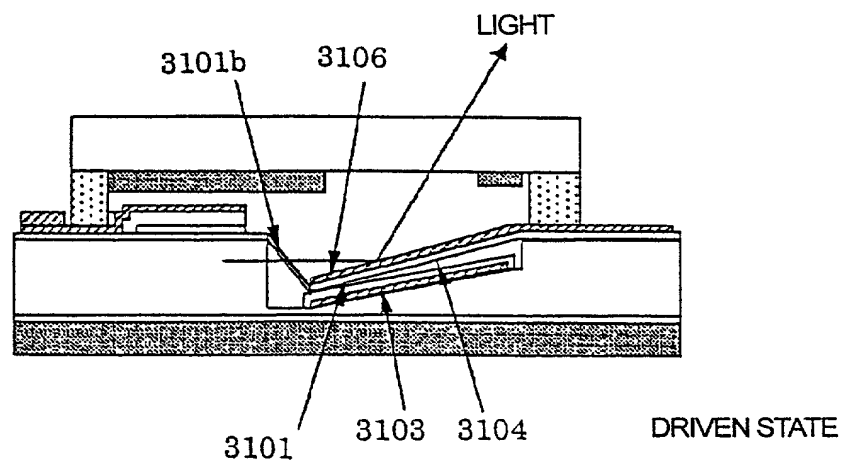
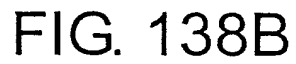


FIG. 137F





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FIG. 139A

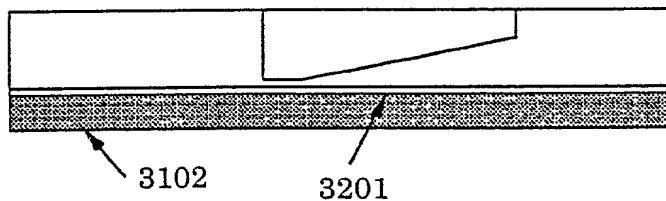


FIG. 139B

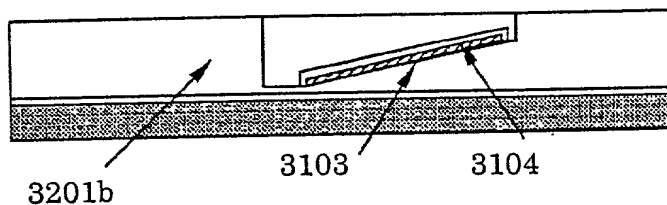


FIG. 139C

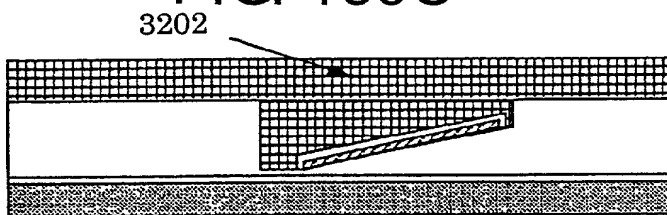
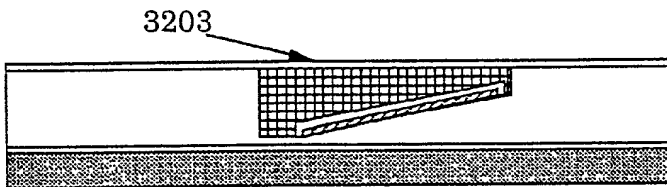


FIG. 139D



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FIG. 140A

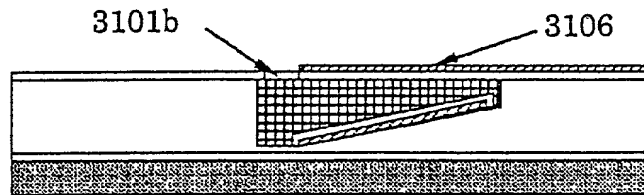
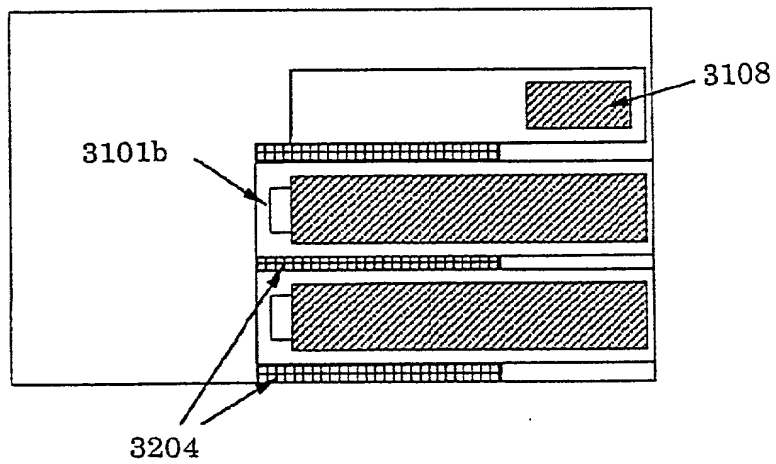


FIG. 140B



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FIG. 140C

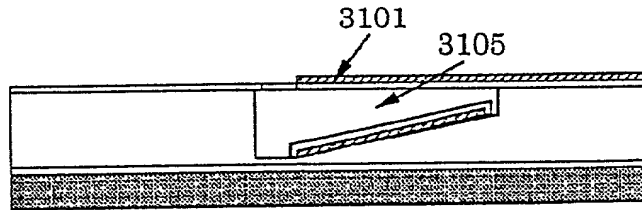
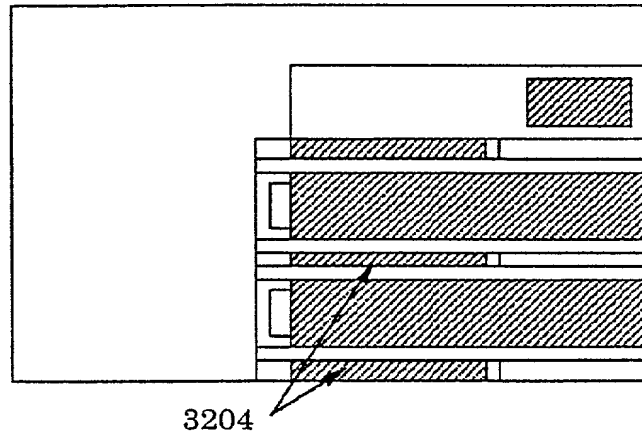


FIG. 140D



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FIG. 141A

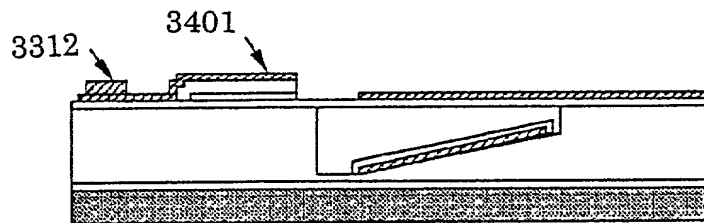
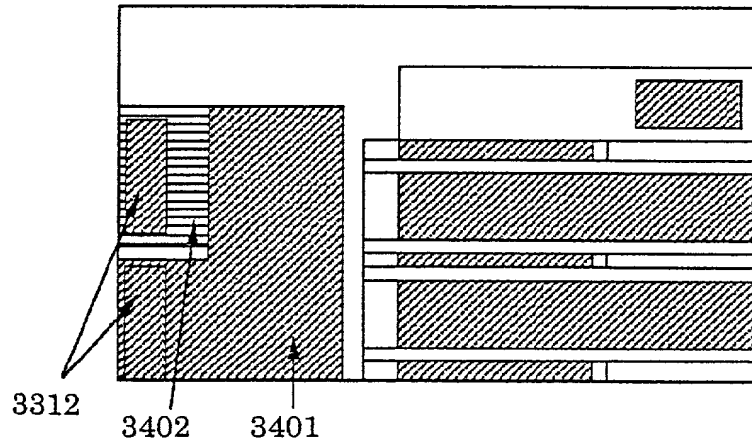


FIG. 141B



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FIG. 141C

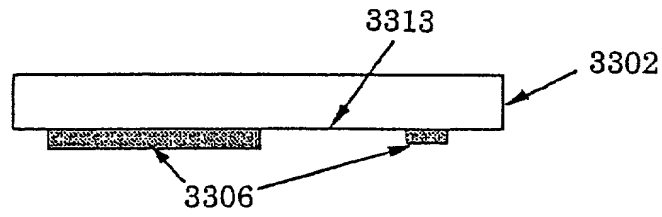


FIG. 141D

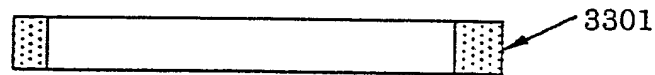
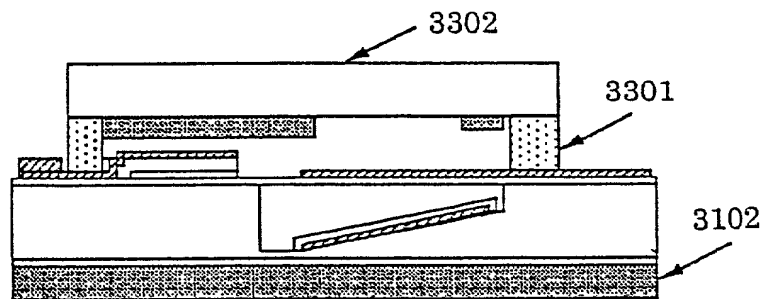


FIG. 141E



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FIG. 142

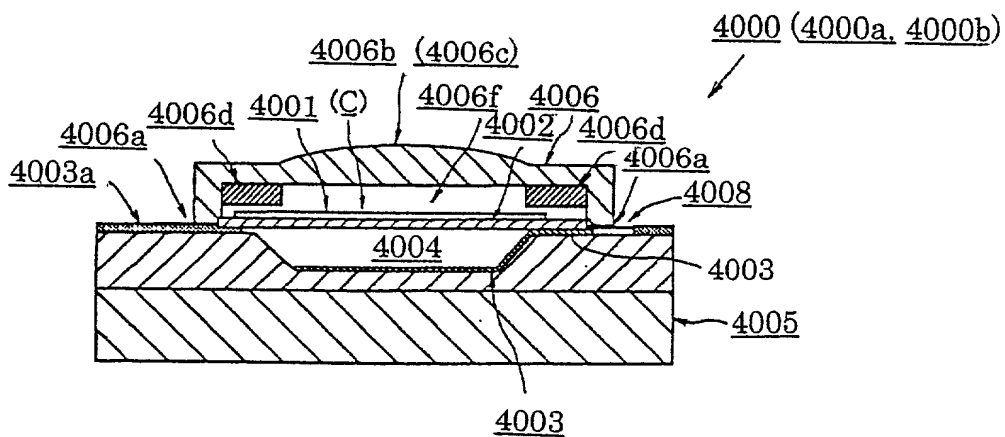
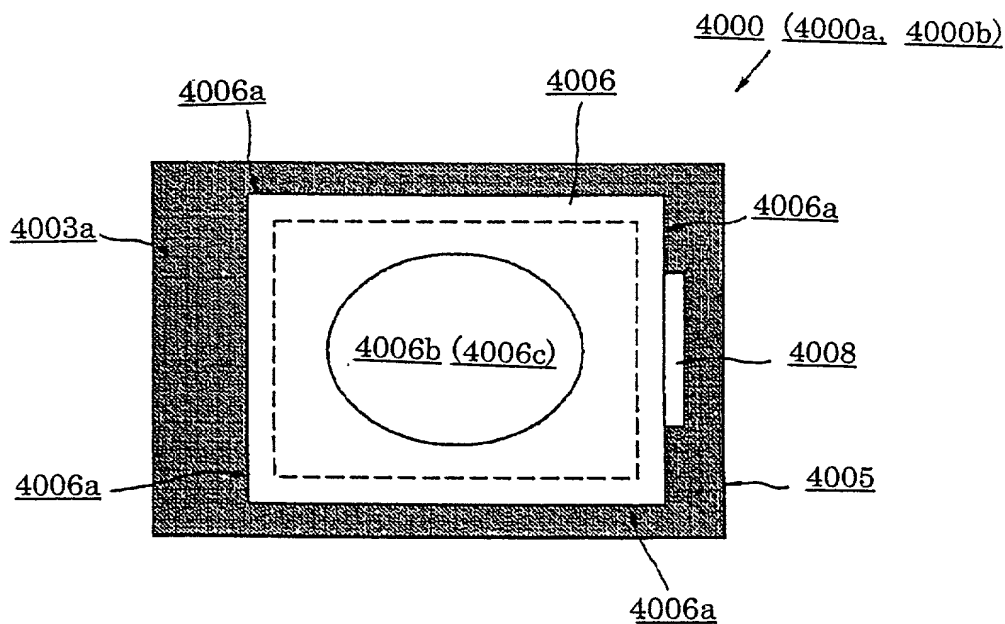


FIG. 143



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FIG. 144

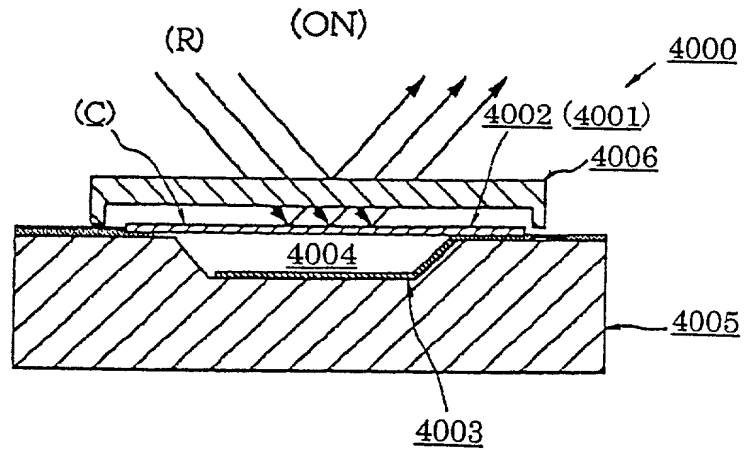
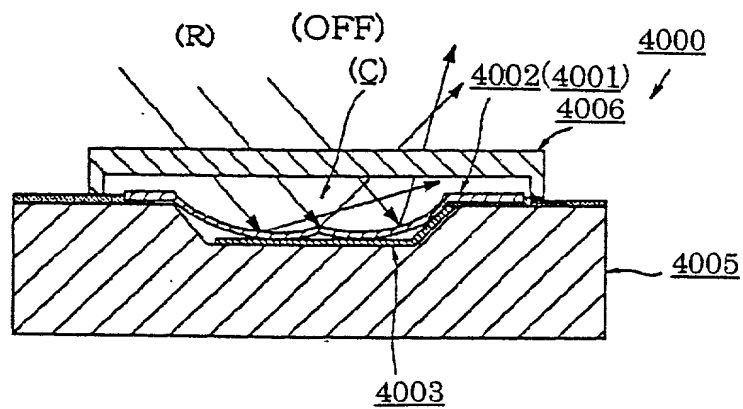


FIG. 145



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FIG. 146

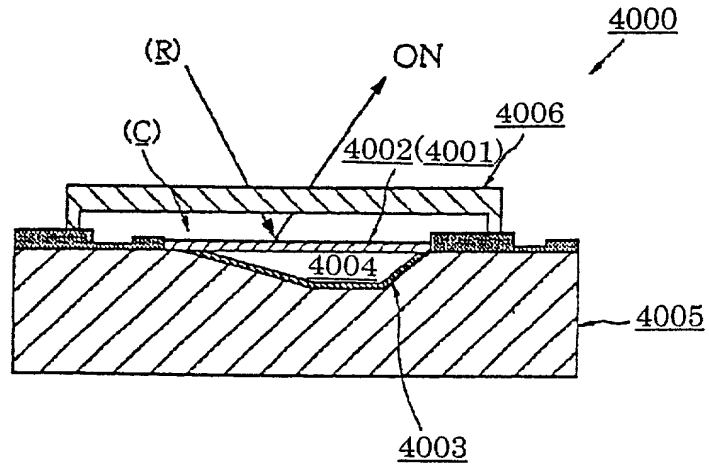
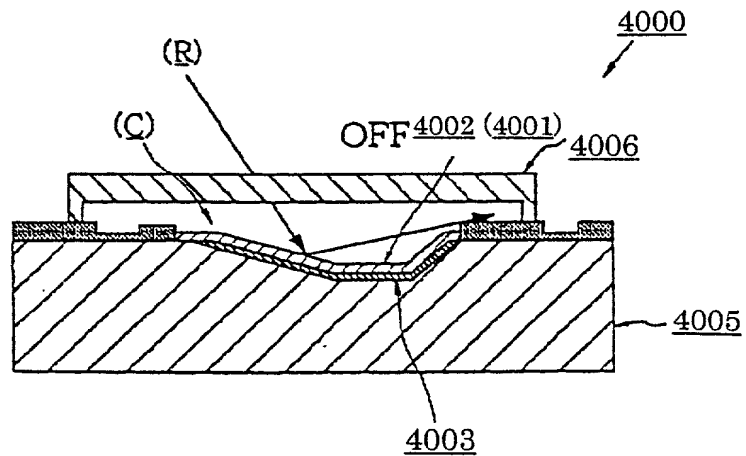


FIG. 147



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FIG. 148

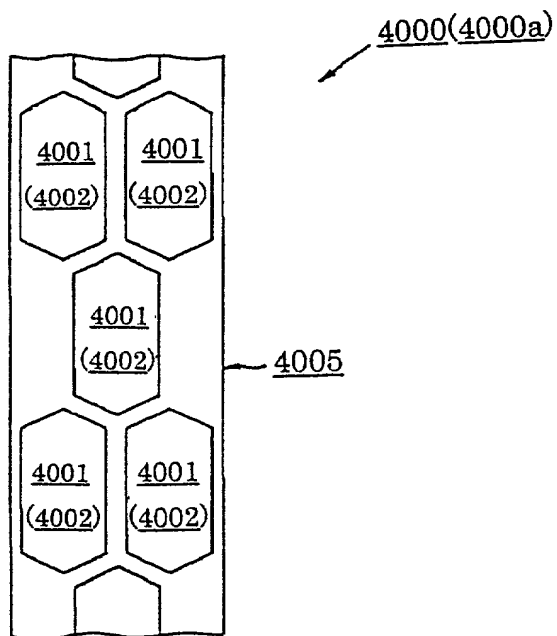
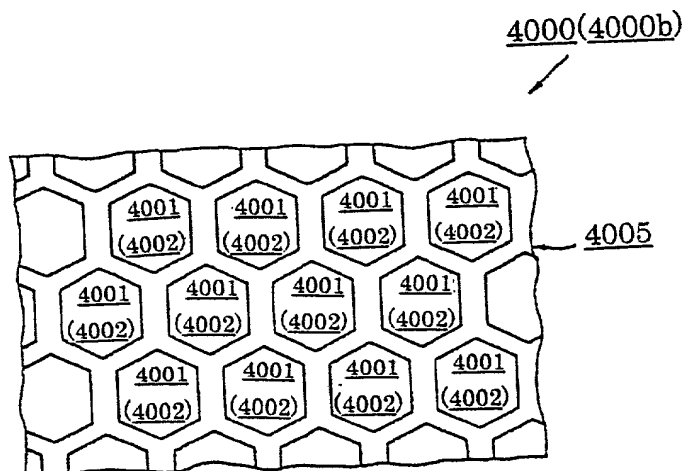
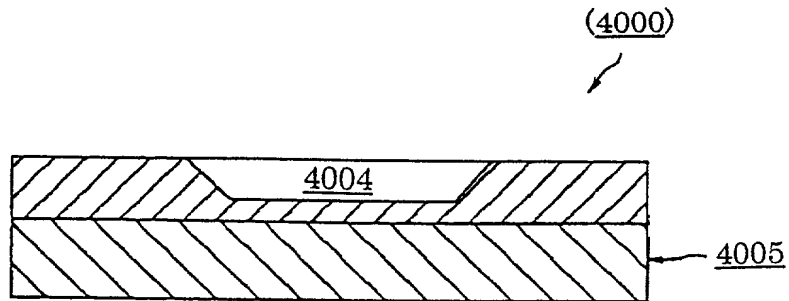


FIG. 149



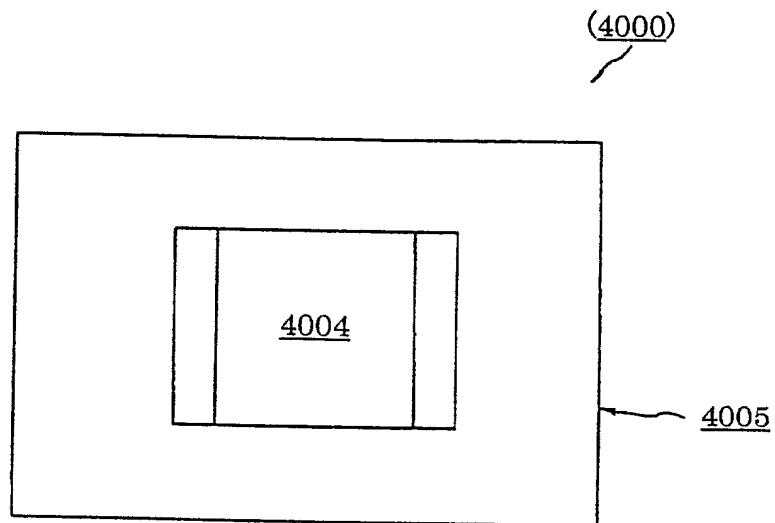
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FIG. 150



(a)

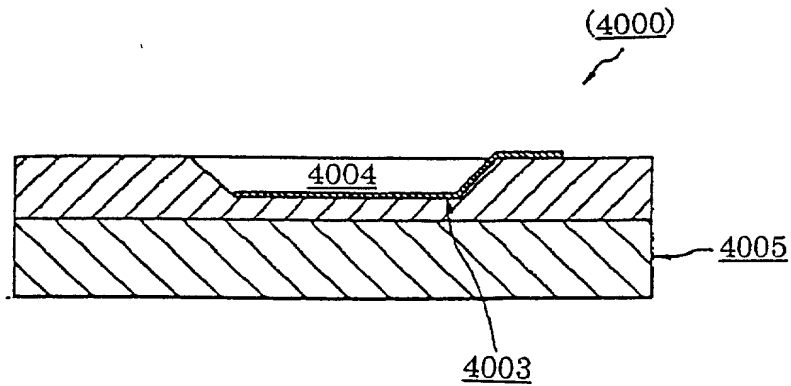
FIG. 151



(a)

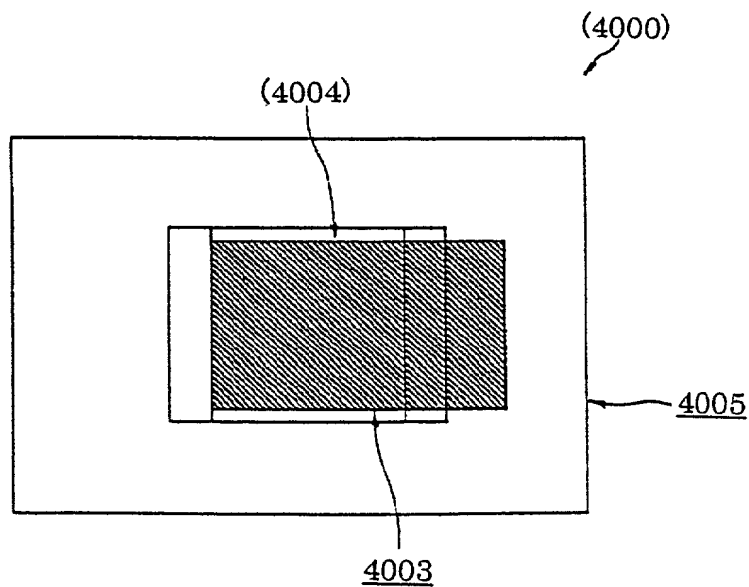
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FIG. 152



(b)

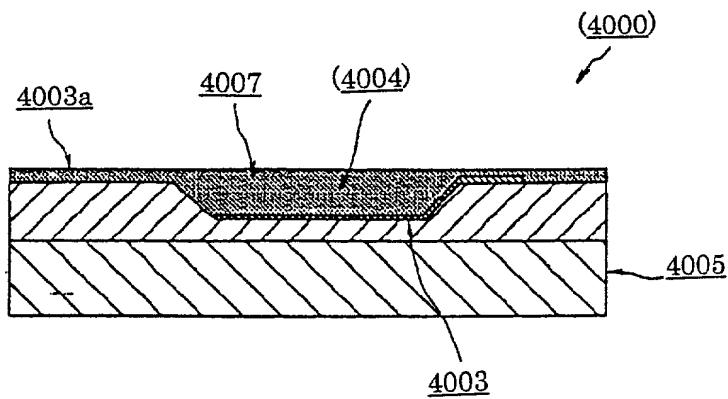
FIG. 153



(b)

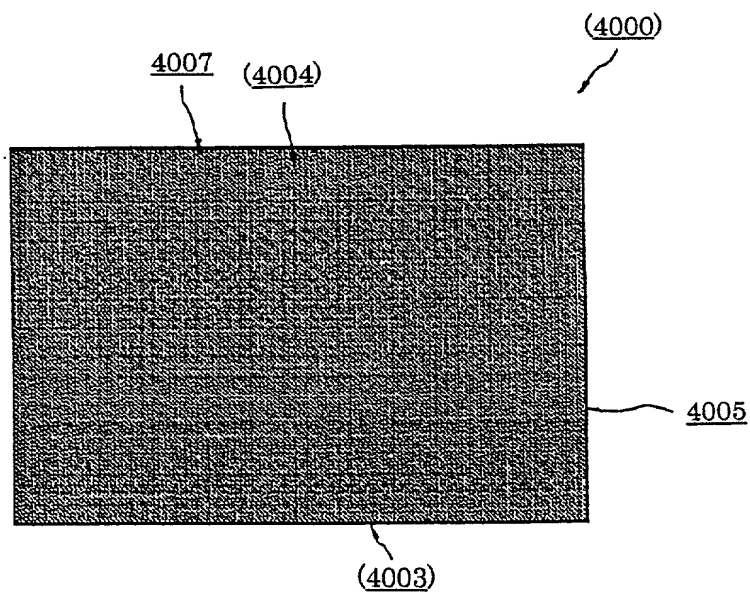
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FIG. 154



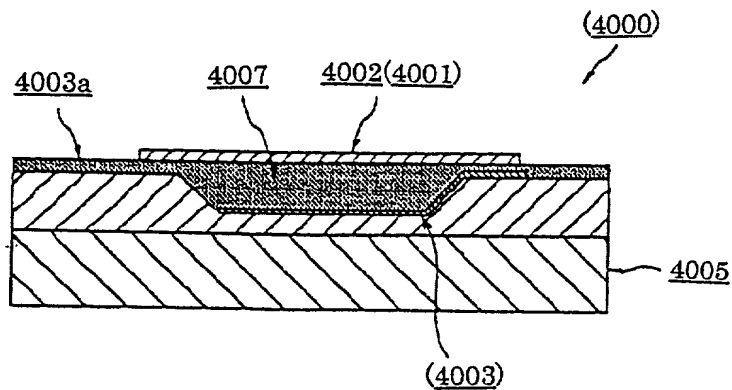
(c)

FIG. 155



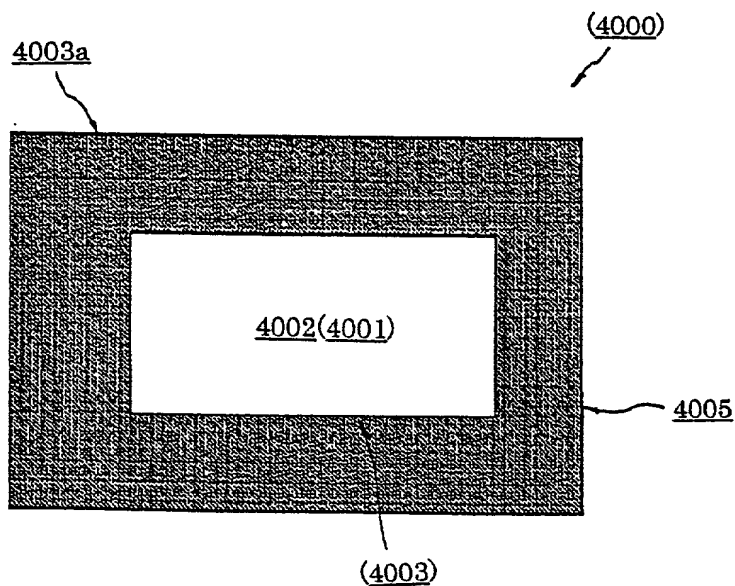
(c)

FIG. 156



(d)

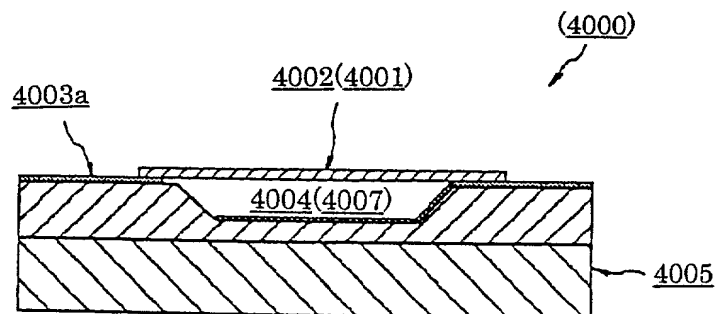
FIG. 157



(d)

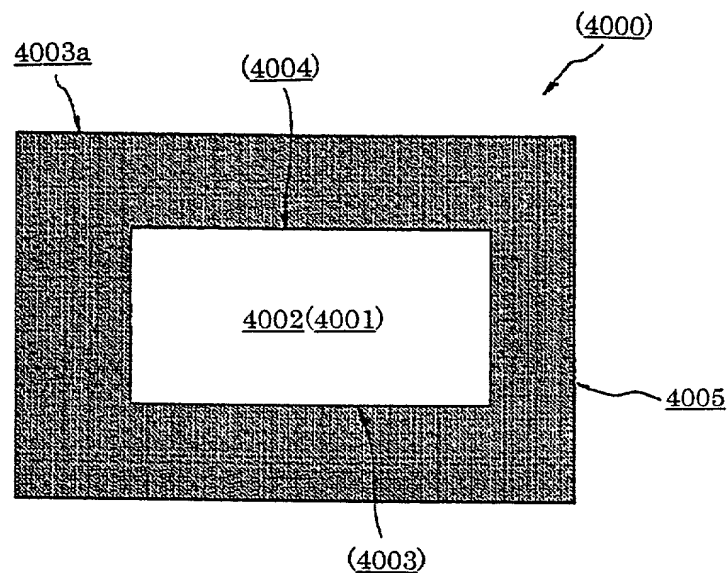
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FIG. 158



(e)

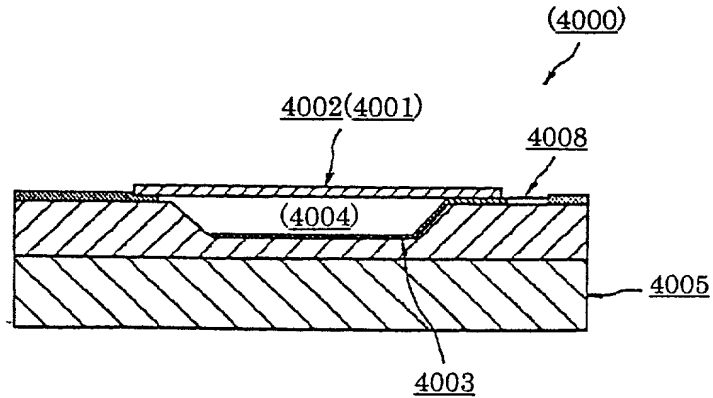
FIG. 159



(e)

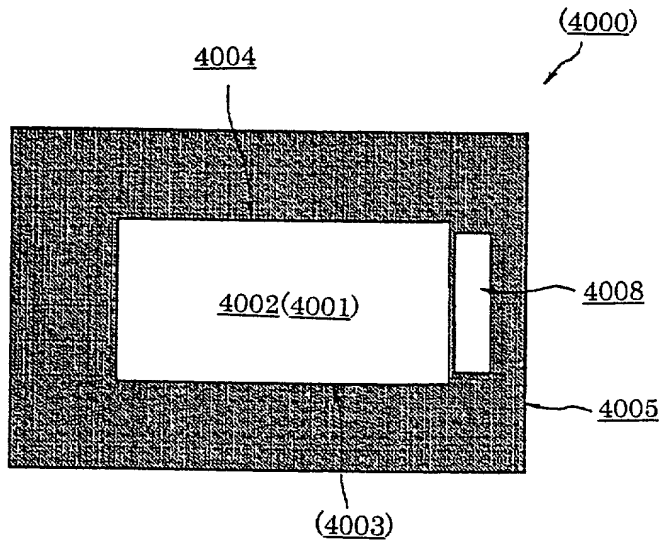
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FIG. 160



(f)

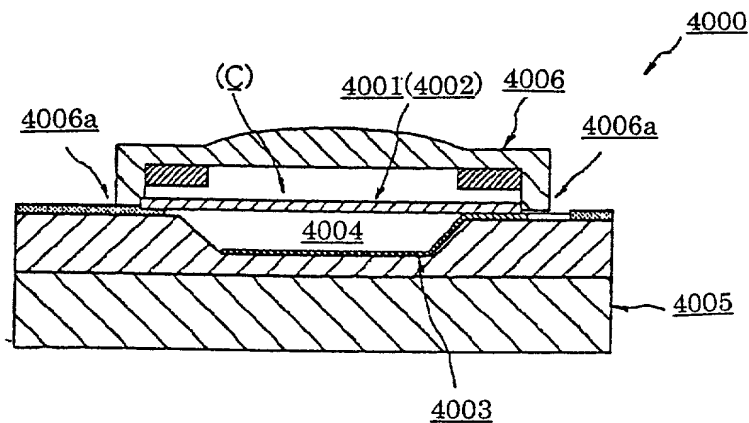
FIG. 161



(f)

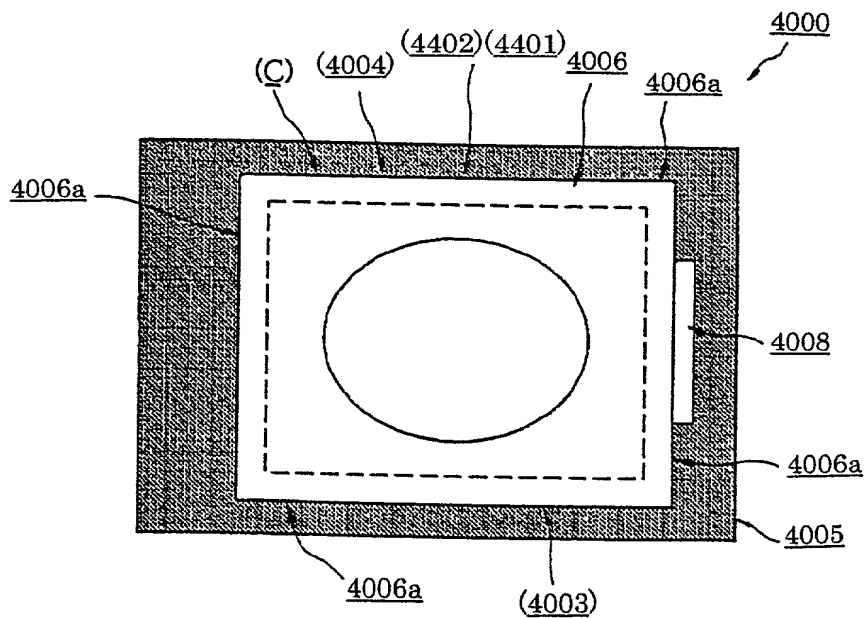
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FIG. 162



(g)

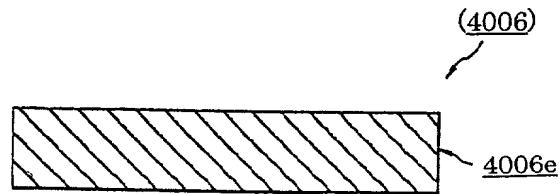
FIG. 163



(g)

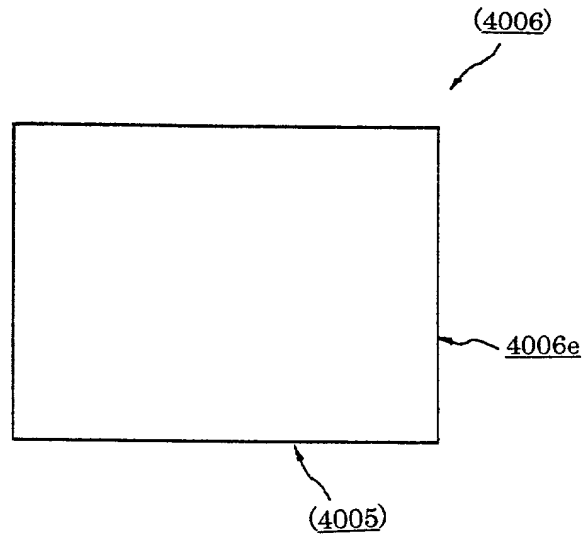
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FIG. 164



(h)

FIG. 165



(h)

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FIG. 166

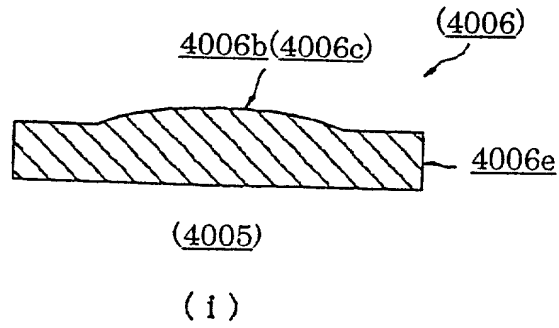
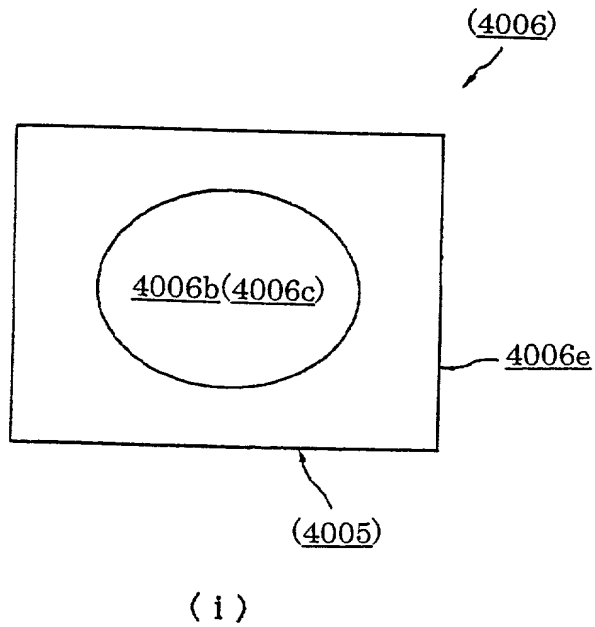
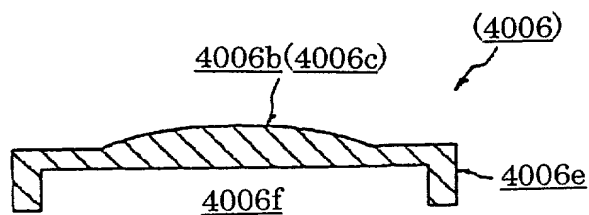


FIG. 167



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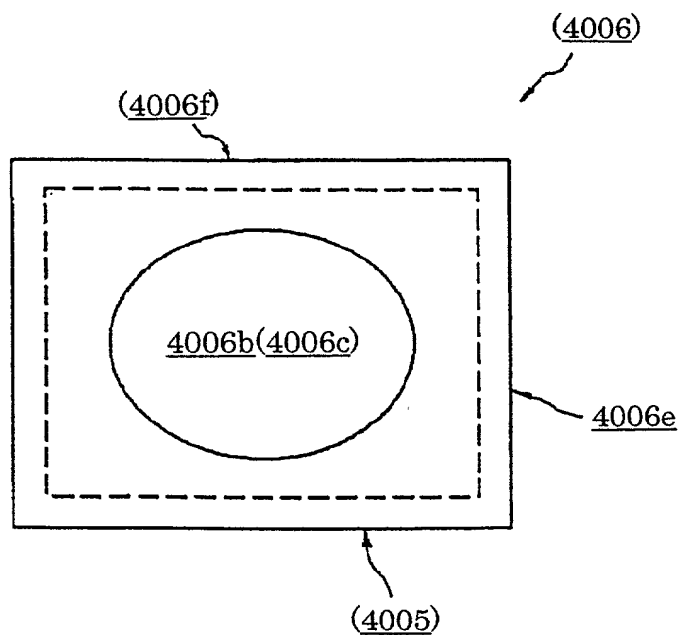
FIG. 168



(5)

(j)

FIG. 169



(j)

FIG. 170

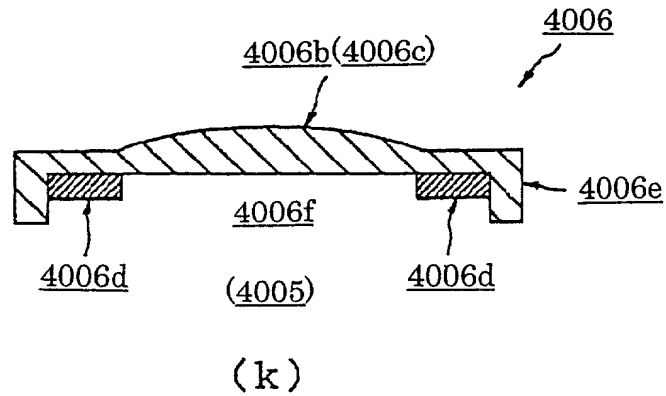
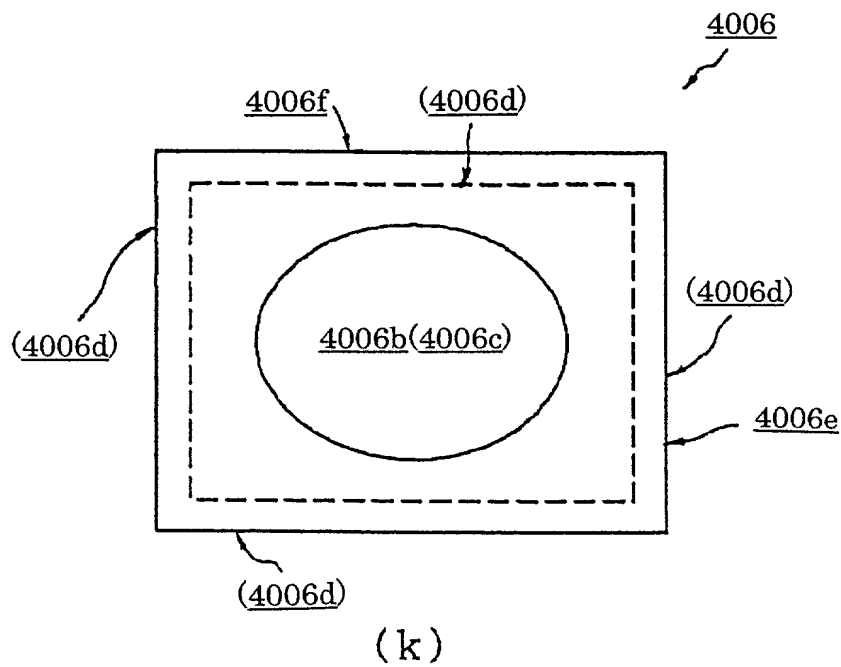


FIG. 171



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FIG. 172

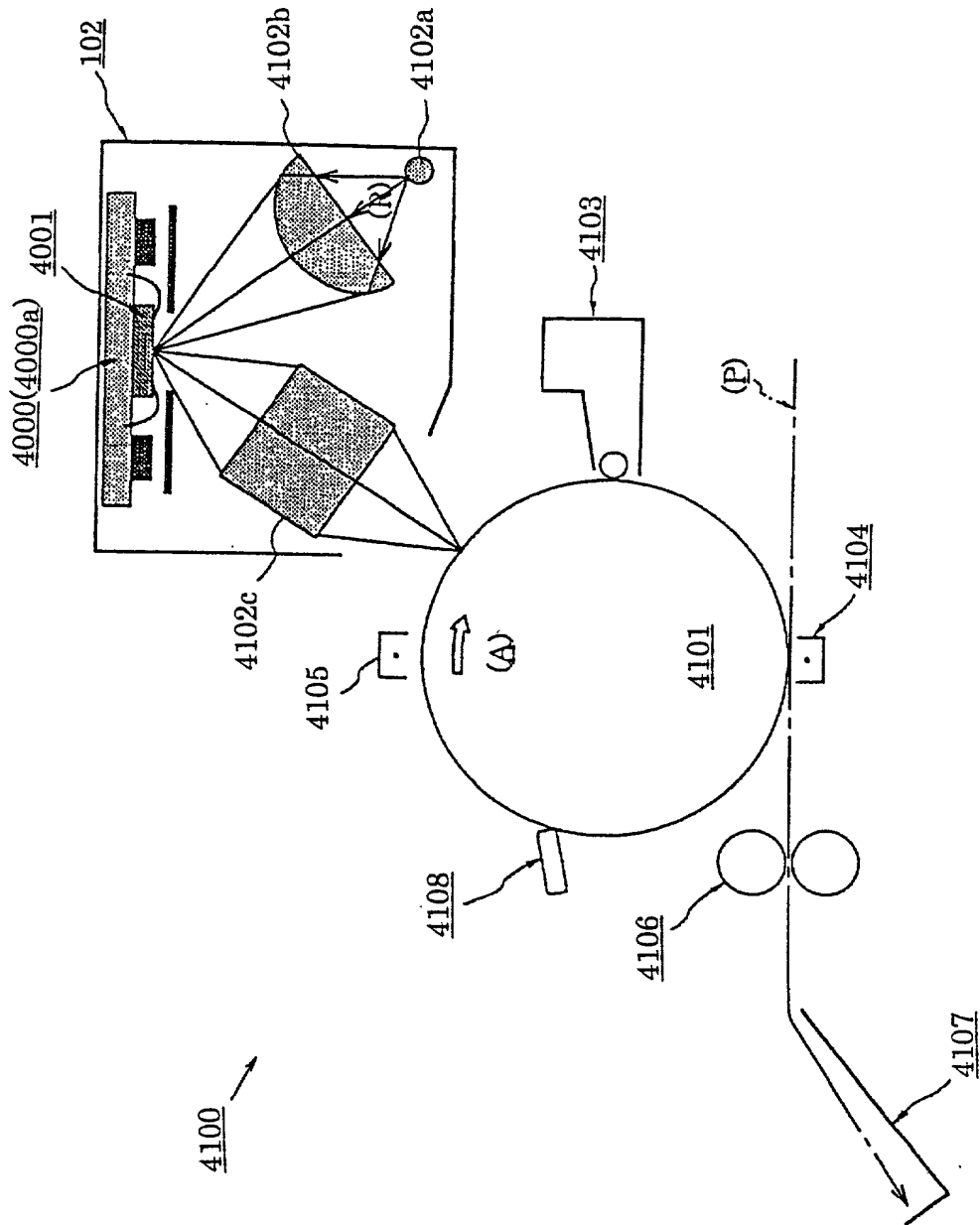


FIG. 173

